Centre for Learning Sciences & Technologies
Open Universiteit

CELSTEC annual report 2011
CELSTEC Annual report

The Open University develops and provides open higher distance education. There is a special focus on the use of new ICTs and teaching/learning methods to provide effective, efficient, attractive and accessible lifelong learning facilities and education to the Dutch citizens. Within the Open University, expertise in the learning sciences and technology enhanced learning is brought together in the Centre for Learning Sciences & Technologies (CELSTEC).

The mission of CELSTEC is to improve learning and knowledge handling at work, at school, at home and on the move by combining state-of-the-art knowledge in the Learning Sciences with the innovative powers of new Information and Communication Technologies. New technologies and approaches to learning are extensively tested in our laboratories and in practice. The core activities of CELSTEC are research, innovation, education and training.

The CELSTEC reports can be ordered from:

Open University in the Netherlands/CELSTEC
Postbus 2960
6401 DL Heerlen
Tel. 045-5762476
Fax. 045-5762800

or downloaded from the Internet: http://celstec.org
Annual report 2011
Preface

The Centre for Learning Sciences and Technologies (CELSTEC) looks back on the year 2011 with satisfaction. This applies both to the Organization itself and to the areas in which CELSTEC is active: research, innovation, education and training. Research in Learning & Cognition, Learning Networks and Learning Media, Innovation, inside and outside the Open University, and the provision of education and training in the Learning Sciences and Technology Enhanced Learning.

An important development for the OU is the OpenU project which examines a new business model for the OU by integrating digital lifelong learning services, social media, new subscription services, e-learning and open educational resources into its offering. The OpenU project is critical for the ambition of the OU to position itself as a front-runner and 'the place to be' in the field of lifelong learning. CELSTEC has taken the lead in developing and deploying this new approach. In 2011 efforts have been given to innovate our current educational offering to the new model and infrastructure, to create a tighter integration between research and education, to create new free courses and develop the infrastructure and business model.

Memorable events in 2011 include:
Dr. Saskia Brand-Gruwel was nominated for the best teacher of the Open University award.

Prof. Dr Paul Kirschner and Dr. Liesbeth Kester were appointed Chief Editor and Associate Editor of the Journal of Computer Assisted Learning.

Prof. Dr Paul A. Kirschner was appointed to the Scientific Advisory Board of the Centre for e-Learning Technology (CeLTech) at the German Research Center for Artificial Intelligence (DFKI), Saarland University, Germany.

Johan van Strien MSc, Prof. dr Saskia Brand-Gruwel and Prof. dr Els Boshuizen were nominated for the best poster award by the the Netherlands Educational Research Association (VOR) on Lezen op het internet: een theoretisch kader [Reading on the internet: a theoretical perspective].

Dr. Halszka Jarodzka defended her PhD thesis on the characteristics and training of visual expertise in medical and biological domains with the grade of Magna Cum Laude, Universität Tübingen.

Greet Fastré defended her PhD thesis titled Improving sustainable assessment skills in vocational education.

Tim de Jong defended his PhD thesis titled 'Contextualised Mobile Media for Learning' vocational education.

Ellen Rusman defended her PhD thesis titled The Mind’s Eye on Personal Profiles. How to inform trustworthiness assessments in virtual project teams.

Helen Jossberger defended her PhD thesis titled Toward Self-Regulated Learning in Vocational Education: Difficulties and Opportunities.

Prof. Dr Rob Koper
Dean of CELSTEC
1 Introduction

The Centre for Learning Sciences and Technologies (CELSTEC) is a Centre of Excellence in the fields of Learning Sciences and Technology Enhanced Learning. The Institute has a leading position nationally and internationally as a research institute. It stands at the heart of the Open Universiteit (OU) and plays a crucial role in the permanent innovation of OU's education and business model.
In addition, CELSTEC is active in the national research foundation (NWO) and EU Research funding initiatives. It has successfully acquired substantial external resources for research and innovation. CELSTEC's agreed targets for CELSTEC are always met or exceeded.

In 2011, we decided within CELSTEC, to organize our education, innovation and research around a number of “Topics”. These topics cover the activities of CELSTEC as much as possible.
In order to provide a foundation for these topics within CELSTEC, they will be set up as websites in OpenU. Here knowledge is shared, and paid as well as free services and products will be made accessible.
The underlying goals of the approach through topics for CELSTEC are:
combining research, innovation and education activities in a particular area
visualize to the world outside which activities we conduct (accountability, sharing knowledge, reputation enhancement)
collaborate with the world outside (through, among other things, the acquisition and the realization of projects with direct and indirect funding, the involvement of external parties) internal professionalization and sharing of knowledge. Through the topics, new employees can be introduced quickly to the knowledge that is necessary. Other employees can quickly take notice of what happens in other programmes and topics.
For further details and background information on the topics, please consult the appendix (in Dutch).

CELSTEC Mission

CELSTEC aims to improve learning and knowledge handling at work, at school, at home and on the move, by combining state-of-the-art knowledge in the Learning Sciences with the innovative powers of new Information and Communication Technologies.
New technologies and approaches to learning are extensively tested in our laboratories and in practice.

As a Centre of Excellence, CELSTEC carries out three combined functions:
1. Research. The creation of new knowledge, services and technology (scientific research and technology development);
2. Innovation. Experimenting with new knowledge, services and technology in order to acquire practical experience (pilots, pilot projects, collaboration with knowledge and technology partners and faculties within the OU) and implementing these in and outside the OU. Inside the OU, CELSTEC has a leading role in the IPO programme (Instellingsbreed Programma Onderwijs), a programme that aims to implement new methods and technologies in OU's education.
3. Education, training and dissemination. Sharing of knowledge, services, technology and experience with others through education, training and dissemination activities.

The following sections describe CELSTEC’s activities in each programme.
2 Learning & Cognition Programme

2.1 Introduction

The mission of the L&C Programme is to support lifelong learners and groups of learners in (1) acquiring skills, knowledge, and attitudes (i.e. competencies), (2) transferring those competencies to a variety of settings and (3) planning, regulating and maintaining their own further learning. The programme does this by research and innovation activities to uncover the cognitive processes underlying learning and using the resulting knowledge to develop a comprehensive theory of instructional design and develop and investigate guidelines to inform the design of effective and efficient learning tasks, learning environments, and learning assessments.

The Programme is positioned within the field of the learning sciences making increased use of technology enhanced methods. This is a broad field with several sub-disciplines, which explicitly encourages a multidisciplinary or even transdisciplinary approach to the study of educational questions, by building on state-of-the-art knowledge in psychology, cognitive science, computer science, and neuroscience. The programme concentrates on four topics (themes), namely:

1. Effective Learning Strategies (Goal: Defining effective study and instruction strategies based on the working of human memory)
2. Information Literacy (Goal: Using Internet resources for solving complex information problems)
3. Expertise Development (Goal: Devising instructional strategies designed to aid learners in achieving expertise)
4. Brain, lifestyle and earning (Goal: Determining how psychological and biological factors relevant to lifelong learning can be influenced)
5. Assessment (Goal: Developing new methods of assessment to meet the challenges of modern societal needs)

The programme has a strong focus on theory-based, use-inspired and praxis-oriented basic and applied research to provide valuable output for both the practical field of education (practical guidelines, workshops, models, tools, professional publications) and the international scientific community (publications in high-quality SSCI journals, scientific workshops, participation in international scientific conferences).

The programme advises institutes on educational innovation and organizes workshops, presentations and innovation projects. These institutes include: ROC Leeuwenborg, ROC Arcus College, Freudenthal Institute for Science and Mathematics Education, Avans Hogeschool, STOAS Hogeschool, INHOLLAND Den Haag, Universitat Oberta de Catalunya (Foundation for the Open University of Catalonia, FUOC), CITO/CE, VLHORA, European Patent Office and Hogeschool Utrecht/Technische Bedrijfskunde.

2.2 Cooperation

There are a number of partners with whom the L&C Programme currently collaborates on with respect to Research and Open Innovation, and which it provides with Solutions or Education & Training. This list is not exhaustive, but gives an impression of the kind of partnerships in which the Programme is engaged or which might be established in the future.

- CITO: Joint research resulted in a paper on the design of computer-based testing.
- Continium: Continium – a Science Centre and Museum - and the the Learning and Cognition programme have agreed on a cooperation that allows the the programme to
present its research to a broad audience and to involve them in real-life research experiences.

- Centre for Brain and Learning, Free University of Amsterdam (VU): The Centre for Brain and Learning is a partner within a larger research programme “Learning in a brain and cognition perspective: a large-scale research programme in the Netherlands”. The programme works with them within a FES research programme.
- Department of Education, Ghent University: Collaboration on research on instructional design.
- Department of Educational Sciences, K.U. Leuven: Collaboration on research on instructional design.
- Humanities Lab, Lund University, Sweden: On-going joint empirical research and on-going cooperation on the eye tracking methodology, resulting in a book and courses given on this topic in other institutions.
- ITS and Celstec began a research project studying the learning processes of cognitively excellent children in (pre)school funded by “onderwijsbewijs”. A Celstec PhD candidate is involved and is stationed at ITS for reasons of research convenience (i.e., geographic location of response schools). About 40 (pre)schools distributed throughout centre and west of the Netherlands will innovate their daily practice by supplying level-appropriate play and learning material integrated at the pupil, class and school level.
- ITS – Professor Ton Mooij is affiliated with ITS and is also Special Professor of Educational Technology (bijzondere hoogleraar onderwijstechnologie) with the chair in the Influence of Learning Tasks on Learning in Elementary Education and specifically Cognitively Excellent Pupils.
- Knowledge Media Research Center, Tübingen, Germany: Collaboration on research on information literacy.
- LVNL/NLR/KDC: Collaboration with the Air Traffic Control of the Netherlands (LVNL), the National Aerospace Laboratory (NLR) and the Knowledge Development Centre main port Schiphol (KDC) on various research projects on the instructional design of training for air traffic controllers.
- Maastricht University (UM): The department of Psychology has been the main supplier of interns and PhD students. In addition, joint research meetings are organised with the department of Education and Development.
- Medical Department, Free University of Amsterdam (VU): Collaboration on research on expertise development and education in training of medical diagnosis of neurological conditions of foetuses based on ultrasound videos of foetuses.
- Open University of Catalonia, eLearn Centre: Prof. dr Paul Kirschner holds a visiting professorship at the Open University of Catalonia and dr. Teresa Guasch (Open University of Catalonia) is a visiting researcher at CELSTEC.
- Psychology Department at Erasmus University Rotterdam (EUR): There exists close research collaboration with the Psychology Department at EUR. Recently, two interlinked research projects on 1) ‘Fostering self-monitoring and self-regulation in primary and secondary education’ (2009-2013) and 2) ‘The testing effect in learning from texts’ (2011-2015) were subsidised by NWQ/PROO.
- ROC-A12: Research is conducted in conjunction with this organisation for secondary vocational education in order to redesign their curriculum in the ‘care and welfare’ sector.
- Stichting Praktijkleren: In cooperation with Stichting Praktijkleren research has been conducted to the quality of a digital performance assessment.
- Teleac/NOT: Teleac/NOT and the Open Universiteit have agreed on strategic cooperation, especially in the area of lifelong learning. Professor Rob Martens is Special professor (bijzonder hoogleraar) as holder of the Teleac/NOT (now NTR) financed Dr. Gerard Veringa Chair in Multimedia Education.
- University of Antwerp: Collaboration on writing research.
- University of Oulu: Prof. dr Paul Kirschner has been appointed visiting professor of Education with a special emphasis on Learning and Interaction in Teacher Education.
Celstec Senior researchers have been appointed as Lector at a number of Universities of Applied Science strengthening Celstec’s relation to this part of higher education in the Netherlands. These include:

- Dr. Desireé Joosten-ten Brinke: Lector Modern Testing and Assessment (Eigentijds toetsen en beoordelen) on the Fontys University of Applied Science Teacher’s College Tilburg
- Dr. Hans Hummel: Lector Workplace Learning (Werkplek Leren) at the NHL University of Applied Science
- Dr. Jan van Bruggen: Lector Educational Functions of ICT (Educatieve Functies van ICT) at Fontys University of Applied Science Teacher’s College in Sittard
- Dr. Marcel van der Klink: Lector Professionalisation of Education (Professionalisering van het onderwijs) at Zuyd University of Applied Science in Heerlen

Other
In a number of projects CELSTEC supports (primary) teacher training institutes in the redesign of curriculum into a competency-based one, and professionalization of their personnel.

- Bernardinus College: Lecture 'Werking van een puberbrein' [How does the Brain of an adolescent work?].
- DSM Resins: workshop during the Safety Health & Environment Congres
- Nederlandse Beroepsorganisatie van Accountants [Dutch Organisation of Accountants]: professionalization
- ELOS-netwerk/Europees Platform: Workshop during ELOS network meeting and keynote/workshop during ELOS networkconference
- Freudenthal Institute for Science and Mathematics Education (Fismc): Onderwijsbewijs - oefenen in DWO [Education-evidence: Practice in Math Education]
- De Haagse Hogeschool: Lecture ' Digitale informatie zoeken, selecteren en verwerken: Een capita selecta van 10 jaar onderwijswetenschappelijk onderzoek' [Digital information searching, selecting and processing: A capita selecta of 10 years scientific research'].
- Hogeschool Limburg - XIOS: professionalization Hogeschool Utrecht: Lecture 'Kwaliteit van toetsen en beoordelen' [Quality of testing and assessing].
- Hogeschool Rotterdam: Keynote 'Kwaliteit van toetsen en beoordelen' [Quality of testing and assessing].
- Hogeschool Zuyd: Audit of the Physiotherapy Educational programme; workshops 4C/ID-model; lecture 'Werking van een puberbrein' [The working of the Adolescent Brain].
- Mediawijzer.net: expertsession
- NTR: Lecture 'Hoe kunnen mensen écht goed leren? Zin en onzin over internet en multitasken' [How do people learn effectively? Truth and lies about Internet and Multi-Tasking].
- Openbare bibliotheek Nuth [Public Library Nuth]: Lecture 'Werking van een puberbrein' [The working of the Adolescent Brain].
- Picompany South Africa Pty Ltd: Lecture 'Recognition of prior learning: from informal learning to certification'
- ROC ID College Zoetermeer: Professionalization in applying the 4C-ID methodology
- ROC Leeuwenborogh: External quality audit
- ROC Arcus College: External quality audit
- SIOB: professionalization
- Stichting Praktijkleren: Developing examproject with EMERGO: Part projects 2 (Digital Examproject) and 3 (Testing and Assessing)
- STOAS Hogeschool: Lecture 'Can we "afford" CSCL'
• TU Delft – EWI: Lecture 'Broodje Aap' [Urban Legends]

2.3 National and international links

• Australian Learning and Teaching Council (ALTC): International Advisory Group on "Blended synchronicity: Uniting on-campus and distributed learners through media-rich real-time collaboration tools"
• Centre for e-Learning Technology (CeLTech): CeLTech at Saarland University and the German Research Center for Artificial Intelligence (DFKI) pools the expertise of over 100 scientists in 18 laboratories at 7 locations in Germany, the Netherlands, the US and China.
• Games and Professional Simulations (GAPS): This group at the University of Wisconsin-Madison, USA develops educational games and assessments for 21st Century learning, with particular emphasis on STEM learning. It is inter-university funded by NSF, MacArthur Foundation and Gates Foundation.
• Learning Systems Institute, Florida State University, USA: The Learning Systems Institute maintains project-based teams led by FSU faculty and graduate students with a wide range of experience in many varied disciplines. These multidisciplinary teams develop robust solutions using systems approaches to the planning, design, evaluation, and improvement of instruction, learning, and human performance.
• School of Education, University of New South Wales, Australia: The School of Education specializes in research and teacher education at the preservice and inservice levels, with a particular focus on secondary and higher education contexts. Its programs include a preservice undergraduate BEd which can be combined with a range of various undergraduate degrees including Arts, Social Sciences, Science, Music, and Economics.
• Stoas University: Stoas University of applied sciences and teacher education is the only Dutch Agricultural Professional University for teachers, trainers and extension specialists in Education and knowledge management. There is cooperation with their Master of Learning and Instruction for (Green) Education and Companies.

2.4 Output/Awards

The output of the research programme is at a stable high level. The target for academic publications is set at 3 scientific publications recognised by the ICO per FTE for staff members and one publication per year for doctoral students (where the thesis also counts as a publication). An input of 19.7 FTE research capacity delivers an output of 64 scientific publications. The annex contains an overview of scientific output.
Schematic representation of output in recent years:

**Learning & Cognition**

Nominations
Dr. Saskia Brand-Gruwel was nominated for the best teacher of the Open University award.
Johan van Strien, Saskia Brand-Gruwel and Els Boshuizen were nominated for the best poster award by the Netherlands Educational Research Association (VOR) on Lezen op het internet: een theoretisch kader [Reading on the internet: a theoretical perspective].
3 Learning Media Programme

3.1 Introduction

The goal of the Learning Media Programme is to establish innovative, challenging and pervasive ways of learning and teaching that exploit the opportunities of emerging digital media, media technologies and devices. The programme concentrates on three topics:
1. Serious Gaming (Goal: Devising challenging, adaptive and responsive learning environments based on gaming concepts and technologies).
2. Mobile learning (Goal: aiming to identify, develop, and reflect on new opportunities to use mobile and ubiquitous technology for learning support. Added values of mobile technologies are in ubiquitous content access, learning in context, and seamless learning support)
3. Learning Analytics (Goal: To analyze the learner’s position and to benefit and improve the effectiveness of learning through feedback and prediction by using educational datasets from digital learning, administrative, and social systems).

In 2010 the Learning Media Programme participated in various externally funded projects. The Icoper project (Interoperable Content for Performance in a Competency-driven Society) made contributions to learning technology standards analysis and experimental learning designs, in particular game-based learning scenarios. The Share.TEC project (SHAring digital REsources in the Teaching Education Community) involved harvesting, infrastructure prototyping and testing for opening up European teacher training materials repositories. In the Grapple project (Generic Responsive Adaptive Personalized Learning Environment) various adaptivity scenarios were tested experimentally and evaluated. All three projects ended in 2010 and received positive reviews. In the Openscout project (Skill-based scouting of open content for management education and training) the Learning Media Programme contributed to the design of competence services. In the STELLAR project various networking activities were arranged for establishing a sustaining Technology Enhanced Learning community in Europe.

3.2 Cooperation

Serious Gaming

The serious gaming activities included the design and development of a game-based course in Basic Life Support. This project was funded by the local authorities (Province of Limburg) and involved cooperation with the Maastricht University Medical Centre. The final product was successfully tested and adopted by the Heerlen Health Academy. The GALA project (Games and Learning Association) is a European Network of Excellence in Serious Gaming. In this project CELSTEC is responsible for the dissemination work package. The project will run for another three years. CELSTEC received a grant from the SURFNET-KENNISNET Innovation Programme for the Streetlearn project. This project involves the use of Google Streetview for creating game-based learning scenarios. For the Stichting Praktijkleren (SBL), which coordinates practical training for vocational education on a national level, CELSTEC started the development of a game-based environment for the assessment of competences. A new line of research was started with the PhD project “Learner support in serious games: enhancing online soft-skills training for lifelong learning “. The project researches emotion detection in serious games. It is funded by the Netherlands Laboratory for Lifelong Learning (NELLL).
Mobile learning
In 2011 mobile media initialized several new relationships with international and national partners and acquired funding for national and international projects. The research group focuses on several applications domains for mobile learning, on the job training, and performance support technologies.

In the field of mobile learning for Logistics a funding was raised from the Dutch Institute of Advanced Logistics (DINALOG). Together with leading Dutch partners from industry and universities the mobile media group develops solutions with a focus on enhancing on the job training solutions and situation awareness for process optimization in the field of logistics and specifically in a Rotterdam harbour setting.

Second the group started the coordination of an INTERREG project Emurgency in the field of mobile health and performance support. The project involves stakeholders from schools to Medical professionals and aims at developing a professional and a public community and several training and support technologies for professionals and layman (http://emurgency.eu). The consortium combines medical expertise with expertise from technology-enhanced learning and computer science. The project is led by the Centre for Learning Sciences and Technologies of the Open University of the Netherlands. Other consortium members are: Universitätsklinikum Aachen, RWTH Aachen, Maastricht University, Ziekenhuis Oost-Limburg (ZOL), K.U.Leuven, CHR Citadelle (CHR) and CECOTEPE ASBL.

In the field of energy and the change of energy consumption behaviour a “SURF innovatieeregeling” funding has supported the development of a sensor infrastructure and mobile and ambient display applications for awareness about energy consumption at the workplace. In the context of the project also a successful evaluation of the infrastructure for innovative flexible workplace support has been implemented.

In 2011 a cooperation with UNHCR has been launched to support training and performance support of UNHCR staff. The pilot cases focused on security trainings for hostage situations and models a hostage taken situation that forces participants to act.

Another pilot was conducted with students of Cultural Sciences take part in a field-trip to Florence, where they study the available visual arts in the original context. ia the smartphone, students received audio recordings containing either information or assignments relative to their location.

The focus of research on lifelong learners was strengthened with the PhD project “Ubiquitous Learning Ecosystem for Lifelong Learners”. The project researches the patterns and use of digital ecosystems by lifelong learners. It is funded by the Netherlands Laboratory for Lifelong Learning (NELLL).

Beside these activities the mobile media group has contributed to several European projects and networks.
3.3 National and international links

The Learning Media programme has extensively participated in the GALA Network of Excellence. This network is a collaboration of 31 European key players in serious gaming. Also contributions were made. In the course of 2011 various research proposals were prepared in close cooperation with European parties. The CHERMUG project proposal for the Lifelong Learning Programme was granted. In this project CELSTEC together with 5 European partners will develop a serious game for students in the domain of Care and Welfare. The project will run until 2014.

In the Network of Excellence STELLAR the group has contributed to the development of Grand Challenges in the field of TEL and is working on a Trend Scouting Report for mobile and contextual learning. Furthermore the group has been coordinating the Stakeholder Network community in STELLAR and successfully build an online platform TELeurope.eu which currently is hosting more than 2000 researchers and cooperating stakeholders in the field of TEL. The project OpenScout has build on the competences for digital and mobile content access and established an OER content network and infrastructure for OER in the field of management education.

3.4 Output/awards

A total 9 research staff (not all full-time) and 5 PhD candidates were responsible for the academic output. In the reporting year 14 academic publications, 1 professional publications and 8 publications in conference proceedings were published. The programme also publishes source code (4) and technical reports (6). It provided a total of 39 presentations at workshops, conferences and symposia.

Schematic representation of the output of recent years:
4 Learning Networks Programme

4.1 Introduction

The Learning Networks Programme focusses its research and valorisation activities on all forms of learning in which online, social networks feature large. Such networks are called Learning Networks, they have been designed to blend informal learning and deliberate instruction in degrees that suit the learner's needs best. Learning Networks could be built from scratch, could make use of a blend of existing social software tools only, or could be designed as a mix of existing and custom-made social software tools. Learning Network research focusses on knowledge sharing and knowledge creation, on professional development and innovation enhancement. Of particular research interest are the social affordances and their technical implementation in services that make learning in such environments effective, efficient, accessible, enjoyable and sustainable.

The programme concentrates on the topic of Networked learning which focuses on competence development for professionals. The central question here is how professionals can be helped best to foster their competence development. It takes a particular interest in key competences, such as entrepreneurship and being creative. The networked learning theme takes as its point of departure the opportunities learners should be provided with to engage online with each other and share knowledge and experiences. It researches the concepts, theories and models that underpin optimal network and community structures. The theme of social media researches and particularly designs, develops and evaluates a variety of tools and methods that underpin the overall architecture of a Learning Network as well as the services that it needs to function properly.

Programme members participate in the national research schools SIKS and ICO. The majority of its PhD candidates participate in SIKS.

4.2 Cooperation

The programme validates and valorises its research through a variety of, mainly national, activities that regard educational innovation with Learning Networks. This ensures that the research carried out has a relevance wider than the scientific community in which it is carried out. To strengthen its valorisation efforts, the programme organizes workshops, for instance regarding the publication of a handbook on Learning Networks. It provides consultancy services, for instance a needs analysis and design of an online Learning Network to serve the IntraRegional Network on 'Sustainable Urban Neighbourhoods' or of Learning Networks to facilitate multi-actor learning for sustainable regional development ('Global Learning Space' for UN-UNESCO Regional Centres of Expertise (RCE). Finally, it also gives presentations and writes blogs and professional publications (papers and a book) on the topic of educational innovation with Learning Networks.

The programme actively seeks cooperation with a variety of partners, both to increase the quality of its research and to extend the opportunities for valorisation. Cooperative research is carried out mainly but not exclusively in the context of externally, mainly European (FP7 and Lifelong Learning) projects.
The major innovation projects the programme was involved in are:
- OERNED, Ministry of Education, Culture and Science
- Library School, Vereniging Openbare Bibliotheeken and Library School Consortium (hosted bij OBA Amsterdam). Co-design and implement innovative Blended Learning strategy, learning design and infrastructure.
- Biebkracht, Gelders Library Network Conceptional design and implementation of online platform ‘e-knowledge hub’ for public Libraries staff; this included the organisation of an international expert meeting with the intent to evaluate the Learning Networks concept for their e-knowledge hub.
- Zorgacademie Parkstad Limburg, regional collaboration MBO-HBO Healthcare) Conceptual design and development of Learning network infrastructure
- Einstein, collaboration with Koning Willem 1 College; (MBO)
- Servicecentrum Lifelong Learning Limburg (SC4L), regional collaboration MBO-HBO_WO to serve business industry and public services. Main topics and expertise delivered through the LNP: (1) Conceptual design and development of Learning network infrastructure (prototype) (2) Monitor and test integrated e-portfolio services (3) contribution to design for SC4L Business model
- DIGCOMP, tendered assignment with JRC-IPTS, Sevilla about digital competencies
- LevenlangLeren@HsZuyd; partnership in campuswide innovation program Zuyd Hogeschool. Main topics and expertise for LNP to deliver: (1) assessment and Certification of Zuyd Hogeschool Prior Learning Assessment and Recognition (PLAR) procedures (2) training program and coaching implementation social media and Blended Learning
- Xperience Parkstad Limburg. Regional cooperation between all levels of ‘VO’, MBO and HO to improve regional knowledge infrastructure and education innovation in joined effort with industry and government
- Trend analysis for the Surf foundation on OERs and rethinking pedagogical models.

The programme was furthermore instrumental in organising:
- The Brain 2012 exposition in Continium
- Workshops on competence frameworks and assessment policies for (in service and preservice) teachers, in the context of the ELOS programme for teachers training institutes throughout Europe.

4.3 National and international links

The programme collaborates with several international universities. Collaboration takes various forms, from the joint execution of (European) projects to the collaborative writing of papers.

The following joint research projects were started or have been continued:
- Learning Technologies for Lifelong Learning (LTFLL)
- Improving the Continuity of Patient Care through Identification and Implementation of Novel Patient Handover Processes in Europe (Handover), FP7
- Online CEF-based assessment of oral proficiency for intercultural professional communication (CEFCult), LLP
- Teachers’ Lifelong Learning Networks (TeLLNet), LLP
- BIODESIGN, LLP, focuses on innovation in education and education for innovation in the medical domain
4.4 Output/Awards

A total of 11 research staff (not all full-time; including 1 post-doc) and 5 PhD candidates were responsible for the academic output. In addition to this, 4 staff members, who are mainly involved in valorisation activities, contributed to the professional publications output. In the reporting year 40 academic publications, 8 professional publications, 13 publications in conference proceedings and 1 thesis were produced.

Schematic representation of output in recent years:

Awards
5 Education & Training Institute

5.1 Introduction

CELSTEC as an institute develops new knowledge in the domains of Learning Sciences and Technology Enhanced Learning. This new knowledge focuses on theories, guidelines, procedures, technologies and services. The task of the Education & Training Institute (E&TI) of CELSTEC is to develop, organize and deliver education and training courses and programmes that can help students at various levels of background knowledge who need to build further expertise in those domains.

The E&TI offers one MSc programme in Learning Sciences (60099) focusing on the research and the design competence. A large number of the students are working in an education setting (primary, general and vocational secondary education, and universities of applied sciences). Furthermore, it offers a bridging programme for applicants who do not have an academic bachelor's degree in the learning sciences. Several of the courses that make up these programmes can also be taken as electives in other OU studies, or as independent courses.

In 2011 a redesign of the programme was implemented aiming at a better fine-tuning of the content of the two competences so that students can meet the final attainment levels more easily, and the integration of academic skills into the curriculum. This redesign was based on different recommendations emanating from a mid-term review of the MSc programme, which took place in March 2010. Other, points of improvement stemmed for systematic evaluations of the programme.

Furthermore, the Certified professional programmes (CPP's) were replaced by short programmes (Focusopleidingen). These new short programmes are smart combinations of courses to gain more knowledge on a specific subject matter. The two short programmes are: ‘Teacher as designer’ (In 2011, 29 students of whom 7 students completed this programme and received a diploma) and ‘Teachers as researcher’ (in 2011, 1 student).

On 7 July 2011 OpenU, the new electronic learning environment’ was launched. OpenU is an integrated environment for the students and the staff of CELSTEC. Other people interested can get limited access depending on the right issued on them. It offers a large body of knowledge on learning sciences and technologies, such as programmes, courses, topics, resources, fora, blogs, etc. A benefit of OpenU for students and teachers is that courses are communities and offer web2.0 functionalities. This stimulates the student integration, among themselves and with teachers. Furthermore, students do have the possibility to get acquainted with the research of CELSTEC by interactive topics and by having access to scientific literature (D-space). For teachers OpenU offers a monitor functionality to monitor students’ progress.

In 2011 we did a first experiment with blended formats (called Sprints). A selected group of students participated in a blended version of the course ‘Theoretical Frameworks and Backgrounds of Educational Design’. Besides studying in a distance education setting two face-to-face meetings were organized within two months. Students studied in a strict pace and were stimulated to accomplish the course within a certain time frame. Results were encouraging and in 2012 ‘Sprints’ will be organized for different courses.
Staff expertise is a precondition for all activities carried out by E&TI. Without staff who represent the right mix of content, pedagogic and didactic skills, the raison d’être of E&TI – the quality of teaching - cannot be assured. E&TI’s internal strategy for staff quality is to require all academic faculties to develop the basic qualification for instruction. Part of the staff does meet these basic qualifications, but others are still working on it.

5.2 New courses and revised courses

The MSc Learning Sciences programme has been designed using principles of competence-based education and distance education; it focuses on the research and the design competence. The development of academic skills, such as academic thinking and writing, is considered of paramount importance. This is achieved through a series of courses in which students work individually on meaningful learning tasks. These tasks are delivered using OpenU. Using this environment, students can communicate with peers, upload their assignments and receive feedback from their teachers and peers.

As mentioned the MSc programme was re-designed in the past two years. Recommendations of the review committee, students and teachers, the increase in the numbers of students and new insights in educational issues such as the use of a portfolio have inspired us to re-design the programme.

In 2010 the first stage of revisions took place and in 2011 the following courses were revised or developed:
- O50411 Views, Visions, and Philosophies on Learning Sciences (new)
- O23411 Instructional Design
- O34211 Research Practical Educational Research

In July 2011 the new structure of the curriculum was established. For that purpose the first course of the master was replaced by a new course ‘Views, Visions, and Philosophies on Learning Sciences’ (O50411). In this new course students get an overview of the content of the MSc programme (doing research, designing education and academic writing), get acquainted with their fellow students and teachers, and experience how it is to study in a distance education institute. Concerning the design competence the course ‘Approaches, Strategies and Methods for Educational Design’ (O22421) was already revised in 2010. The course ‘Instructional Design’ (O23411) is revised and is now compulsory and no longer an elective course. As part of the research competence line, last year the course ‘Research Methods for Educational Design’ (O30421) was revised and the new developed course ‘Educational Research; Methodology’ (O27411) became required instead of elective. In this course different research methods used in educational science are discussed. In different courses academic writing was integrated in the curriculum.

People interested in the learning sciences can follow courses on different topics for free. In 2011 ten courses are released on topics as how to motivate students, how to do educational research, how to define learning goals, and how to implement e-learning. Studying a free course takes about 10 hours. The ten courses are representative for the courses in our Master programme Learning Sciences. While studying these course people get an idea of what it is like to study in the Master. The Table presents the courses and how many people visited the site.
##CURSUSTITEL## | ##AALTN BETOHKEN*##
---|---
Bevorderen van motivatie | 5824
Leerdoelen formuleren: hoe doe je dat? | 3579
Leren met ICT | 3228
Competenties onder de loep | 6150
Onderzoek doen in de onderwijspraktijk | 1475
Actief leren | 5266
Het fundament van leren en doceren | 2054
Wanneer is onderwijs aan de maat? | 985
Ontwerpgericht onderzoek in onderwijs | 889
Onderwijsinnovatie: een casus | 824
**Totaal** | **30274**

* vanaf openstelling in maart 2011 tot 31 december 2011

###5.3 Enrolments

Last year 1099 courses were taken by students on the bridging or master's programme. These numbers were distributed as follows:

- O17311 Learning Science: 126
- O18321 Learning and Development: 143
- O34211/O34221 Research Practical Educational Research: 37
- O20431 Professional and Problem Areas: 35
- O50411 Views, Visions, and Philosophies on Learning Sciences: 192
- O21421 Theoretical Frameworks and Backgrounds of Educational Design: 104
- O22411/21 Approaches, Strategies and Methods for Educational Design: 77
- O23411/O23421 Instructional Design: 41
- O24411 Learning and Competency development: 17
- O25411 Quality Assurance in Education: 24
- O27411 Educational Research: Methodology: 36
- O28421 E-learning: what, why and how: 42
- O30421 Research Methods for Educational Design: 26
- O31421 Current Trends and Issues: 35
- O35421 Project Learning Sciences: 20
- O41411 Implementation of Educational Innovations: 13
- O42411 Evaluation of Educational Innovations: 2
- O43411 Advanced Studies in Learning Sciences 1: 19
- O44411 Advanced Studies in Learning Sciences 2: 2
- O32441 Designing a Research Plan; Master Thesis Preparation: 24
- O33417 Master Thesis: 84

Furthermore, there were 507 courses completed with a certificate in 2011.
Schematic representation of the module sales 2006/2011:

![Module sales 2006-2011 graph]

5.4 Graduates

2011

5.5 Cooperation/Internationalization

The bridging programme is offered in cooperation with the Faculties of Psychology (methodology and statistics) and Cultural Sciences (philosophy).

The organized conferences for the course ‘Current Trends and Issues’ (O31421) are – on payment - also open for master- and PhD-students of other institutes. Teachers of other institutes are invited as guest lecturers.

E&TI works together with Iselinge Hogeschool to deliver an academic teacher-training programme. The backbone of the programme is the academic bridging programme; a jointly-developed curriculum integrates this bridging programme. Students take three courses a year. Their task is not only to pass the exams but also to use their new skills in
projects in which the whole class participates. Apart from the OU support that is embedded in the courses, the group is supported by an Iselinge faculty member.

Apart from Iselinge, E&TI also works together with other universities, including universities of applied sciences, in the area of students’ master thesis research. Examples are Hogeschool de Kempel, Fontys Hogeschool and Hogeschool Edith Stein/OCT, Hengelo.

With KPCgroep – a consultancy company – and Koning Willem 1 College – a college for vocational education – E&TI participated in a project that explored and defined an HRM structure, which integrates formal professional development and career opportunities for teachers. There is an agreement concerning exemption of pr-master courses for teachers who participated in innotation activities.

5.6 Research

Research in the E&TI can be viewed from different perspectives.
1) The relation between research and (academic) master's programmes. This research is conducted through CELSTEC research programmes. For the academic world, the involvement of students in research is the means to transfer academic skills and attitudes as well as to bring students in contact with the frontiers of science. E&TI does this by creating Capita Selecta courses in these domains and offering students the opportunity to complete their master's thesis in association with this programmed research.

2) Research conducted by students as part of their educational programme. E&TI tries to strike a balance between students’ own interests (often fuelled by the interests of their employers) and the areas of expertise of CELSTEC staff. Where possible cooperation with other institutes for Higher Education (lectorate) is sought.

3) Research conducted within the context of educational development and design. As E&TI develops and tests new formats for web-based training, small-scale studies are carried out to investigate the added value of these methods. This research is mainly design-based.

5.7 Online Master class

As part of new business every three weeks an Online Master class on a current interesting topic in learning sciences and technologies is organized. An Online Master class has a duration of one week and during that week students study different sources, discuss topic related issues in a forum, accomplish learning tasks and follow the online session with the experts. During this online session of one hour the experts is interviewed and participants can ask question using the chat. The master programme students can send in the learning tasks of six master classes and get a certificate of a ‘Capita Selecta’ course. Every master class is recorded and available on Internet for further study through http://openu.nl/web/leren/masterclasses.
### 5.8 Output/awards

One professional publication was issued during the report year and three conference presentations were given as a result of students’ master theses. This output is included in the output of the programme the thesis supervisor is working in. Different CELSTEC staff members participated in the two by the E&T institute organized mini-conferences and presented key-notes or workshops. Furthermore, different member of the E&T institute teach courses concerning the basic qualification for instruction.
6 Contributions to internal Open Universiteit projects

Since 2007, educational innovation at the Open Universiteit has been organised in an institution-wide programme, the Instellingsbreed Programma Onderwijs (IPO). CELSTEC is a major contributor, with approximately 10 FTE posts, and works closely with other parts of the organisation. Its contributions relate to a number of priority projects: modernising the electronic learning environment, solutions for online support, student assessments, introduction of the basic qualification for instruction, multimedia development, recognition of prior learning, upgrading the online testing system and work processes for the development of digital learning materials.

In November 2008 the OER (Open Educational Resources) taskforce delivered a report setting out an OER strategy for the Open Universiteit. This plan, known as OpenU, supports the core of the Open Universiteit’s strategy to position itself as a leader in OER by making part of its materials, publications and tools freely available to interested parties. By offering some of its materials free of charge and by making all its materials accessible at a low rate, the Open Universiteit aims to consolidate its position as the ‘spider in the web’ for lifelong learning and to reach out to new target groups. The Open Universiteit also hopes to strengthen the bond with its students by offering new products and new services, and by making use of new forms of registration. The overall purpose of OpenU is the generation of additional income by attracting more students, interesting other target groups in our work and increasing our appeal to lifelong learners.

The Executive Board has asked CELSTEC to lead and expand the OpenU project. A start was made in 2009, and the CELSTEC contribution to this project rose to some 7 FTE in 2011.

CELSTEC is also involved in OU-wide projects and programmes such as Wikiwijs, OERNED and NeLLL.

OpenU

OpenU has to contribute to the fact that the Open University can live up to its pivotal role in the field of lifelong learning. For this purpose, a new learning platform is being developed and new learning services based, on a new business model, are being offered. The goal is volume expansion (among other things, by reaching new groups of customers), reputation enhancement (e.g. by strategic deployment of open educational resources, and as a platform for collaboration with other organisations), and ultimately, more revenues for the institution.

In 2011 the development of OpenU received a major boost. A change of name took place, because the former name “StOER“ was too much associated with the Open Educational Resources being the central theme within this initiative (although Open Educational Resources are still a part of OpenU). At present, the Open University has a reliable platform with ample functionalities and content.

Some results up till now:
- Number of users. By the end of November 2011, OpenU had 1,959 registered users, of which: registered as interested (819); employees (200); students (in total 938, of which 439 within the faculty of Learning Sciences and Technologies, 48 within the faculty of Computer Science and the rest within the other faculties); and knowledge subscribers (4). As from July up to and including November the portal had 65,026 visitors (being 23,345 for Learning Sciences and 41,681 for Computer Science) by 43,213 unique visitors (14,378 for Learning Sciences and 28,835 for Computer Science). In total, more than 280,000 pages were viewed.
- OpenU infrastructure. The OpenU developed infrastructure combines the functionality of a portal system for the support of professional communities with an electronic learning environment, and can be deployed as such in future partnerships with co-
developers and educational institutes. For registered users a personal learning environment is available in which they can share knowledge, and network with other users. Furthermore, it is possible to follow online master classes in OpenU, to provide online courses (including monitoring the students’ progress) and to organize webinars.

- What’s new? As part of OpenU, the faculty of Learning Sciences and Technologies organized five online master classes in the field of education and learning, in November and December 2011. Apart from that, the faculty set up six topic communities on central themes in the field of education, research and innovation. Furthermore, the so-called “knowledge subscription” was introduced. With this subscription, the aim is to reach target groups that do not yet want to follow a course, or study for an academic degree. Finally, eleven courses will be offered for free at the faculty of Learning Sciences and Technologies.

- OpenU as a learning environment. The faculty of Learning Sciences and Technologies offers all its courses in OpenU. As from July 2011, all the courses were moved to OpenU, and simultaneously the content was improved.

- Reputation enhancement. Parts of the new products, especially the free courses, the topic communities and the master classes, provide access to knowledge and expertise that used to be private within CELSTEC. In this way these products contribute to reputation enhancement.

- Collaboration. A portal and two online courses were developed for the “Zorgacademie Parkstad”. Moreover, CELSTEC explores the collaboration with the KPC Groep, with a few professional universities and with vocational colleges. The focus of this collaboration is the professionalization of teachers and shaping lifelong learning.

- Strategic deployment of Open Educational Resources. The free courses and the content of the topic communities are accessible for free. As part of a paid “knowledge subscription” the user can access the content of all courses.

As far as the faculty of Learning Sciences and Technologies is concerned, OpenU is fully integrated. In 2011, OpenU became an essential facility for the primary process.
7 Organization

The CELSTEC organization chart:

7.1 CELSTEC Management team

CELSTEC is headed by a management team. In 2011 this team met around once a month. Issues concerning CELSTEC generally, personnel policy and operations are standard on the agenda. Plans for the individual CELSTEC programmes and project plans are approved in advance by the management team.

Management team composition at 1 January 2011:
Prof. Dr Rob Koper, dean of CELSTEC
Dr Jo Boon, human resource manager
Jos van den Broek, director of operations.

The substantive aspects of CELSTEC programmes are guided by a programme director:
Prof. Dr Paul Kirschner, Learning & Cognition
Prof. Dr Peter Sloep, Learning Networks
Prof. Dr Wim Westera, Learning Media
Prof. Dr Els Boshuizen, Institute for Education and Training.

7.2 Staffing

CELSTEC does not have sections for the different areas of work, but a single group of professionals.

Concerted programmes and project plans for the various areas of work are periodically drawn up, and are staffed from the department as a whole.
The Institute also has an administrative-organisational support unit. Total staff numbers currently stand at around 110.

The following staff joined in 2011: Wilfred Rubens, Soude Fazeli, Elma Dijkstra, Thomas Jaarsma, Jimmy Frèrejean, Matija Obreza, Joyce Neroni, Pauline Reijnders, Jérôme Gjelselaers, Bernardo Tabuenca, Klavash Bahreini, Charlotte Wolff, Susan Mckenney, and Wen Qi.

The following staff left CELSTEC in 2011: Fred de Roode, Anne Helsdingen, Wessel Slot and Marion Gruber.

The table below shows the change in staff numbers from December 2010 to December 2011.

<table>
<thead>
<tr>
<th>Staff numbers (UFO definitions)</th>
<th>31-12-2010 FTE</th>
<th>31-12-2010 persons</th>
<th>31-12-2011 FTE</th>
<th>31-12-2011 persons</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Director of operations</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Departmental head/UHD</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>UHD</td>
<td>6,4</td>
<td>8</td>
<td>7,3</td>
<td>10</td>
</tr>
<tr>
<td>UD</td>
<td>31,71</td>
<td>37</td>
<td>30,92</td>
<td>35</td>
</tr>
<tr>
<td>Doctoral students</td>
<td>16,4</td>
<td>17</td>
<td>24,4</td>
<td>25</td>
</tr>
<tr>
<td>Researcher</td>
<td>7,5</td>
<td>9</td>
<td>7,7</td>
<td>9</td>
</tr>
<tr>
<td>Project manager</td>
<td>2,6</td>
<td>3</td>
<td>2,6</td>
<td>3</td>
</tr>
<tr>
<td>Education coordinator</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>ICT developer</td>
<td>5,8</td>
<td>6</td>
<td>6,8</td>
<td>7</td>
</tr>
<tr>
<td>ICT support</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Education/research</td>
<td>1,8</td>
<td>2</td>
<td>1,6</td>
<td>2</td>
</tr>
<tr>
<td>Audio-visual techniques</td>
<td>0,6</td>
<td>1</td>
<td>1,6</td>
<td>2</td>
</tr>
<tr>
<td>Administrator</td>
<td>2,5</td>
<td>3</td>
<td>2,7</td>
<td>3</td>
</tr>
<tr>
<td>Administrative staff</td>
<td>1,65</td>
<td>2</td>
<td>1,65</td>
<td>2</td>
</tr>
<tr>
<td>Secretarial</td>
<td>4,3</td>
<td>6</td>
<td>3,9</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>92,26</strong></td>
<td><strong>105</strong></td>
<td><strong>102,17</strong></td>
<td><strong>115</strong></td>
</tr>
</tbody>
</table>

7.2.1 Interns

Elise Kiewiet and Fabienne Bertrand held an internship at CELSTEC.

7.2.2 Time tracking/OUpas

In 2011 it appears that employees made consistent use of time tracking, and that this provides a good indication of input at project and programme level. Time tracking also offers a sound basis for (external) project accountability.

7.2.3 Absence through illness

Sickness absence within CELSTEC has been relatively low in recent years, always around 2%, and this has continued in the reporting year. This success is due to the departmental policy in this area to which the role of the organisation’s medical officer, and the manner in which it is carried out, make an important contribution. Both short-term absenteeism and the number of long-term sick have been substantially reduced by this policy.
7.2.4 Male and female staff numbers (academic/support)

<table>
<thead>
<tr>
<th></th>
<th>Academic</th>
<th></th>
<th>Support</th>
<th></th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>&lt; 30</td>
<td>30-39</td>
<td>40-49</td>
<td>≥ 50</td>
<td></td>
</tr>
<tr>
<td></td>
<td>&lt; 30</td>
<td>30-39</td>
<td>40-49</td>
<td>≥ 50</td>
<td></td>
</tr>
<tr>
<td>men</td>
<td>6</td>
<td>11</td>
<td>11</td>
<td>21</td>
<td>10</td>
</tr>
<tr>
<td>women</td>
<td>7</td>
<td>12</td>
<td>9</td>
<td>9</td>
<td>5</td>
</tr>
<tr>
<td>total</td>
<td>13</td>
<td>23</td>
<td>20</td>
<td>30</td>
<td>15</td>
</tr>
</tbody>
</table>

7.3 Administration & Support unit (A&S unit)

The A&S unit provides services to the Dean of CELSTEC, CELSTEC programmes and the academic staff. It offers support by handling the business operations, internal and external communications, Human Resource Management and facility management. The unit also coordinates several services handled by other OU departments for CELSTEC. The unit is also responsible for the information which supports the business processes and control within CELSTEC.

A&S unit services include:

Administrative support for European projects. At the end of 2011 there were 12 EU projects, one of which was coordinated by CELSTEC. The unit also gave support with the submission of various EU proposals.

The unit takes care of the administration of a number of OU-wide programmes and initiatives, such as IPO, NeLLL and OpenU.

In 2011 the operational staff have also been involved in the organisation of conferences:
14 April, Symposium 4 CID ‘Hoe ontwerp je ondersteunende informatie?’, Utrecht.
24 June, PhD Students’ meeting, Open University Graduate School, Heerlen.

In addition, the unit made major contributions to various OU-wide business process initiatives (particularly the allocation model, cost price calculation), various procurement services and the further development of OUPAS.

At the end of 2011 the unit employed 11.9 FTE, of which 2.2 FTE were financed by third parties (funds from independent public organisations and project-linked financing).
Annex 1   Press releases from archive 2011 CELSTEC.org

CSERC ’11: Sally Fincher is keynote speaker – 3 Jan 2011
Sally Fincher, professor of Computing Education at the University of Kent is the first keynote speaker at the Computer Science Education Research Conference (CSERC’11). This conference takes place Thursday 7 and Friday 8th of April 2011 in Heerlen. CSERC’11 is an international conference providing a platform for researchers with interests in all aspects of computer science education.

Participate in a CELSTEC experiment – 6 Jan 2011
Did you ever wonder how well you would react in case of an emergency? To find out, just participate in this CELSTEC experiment.

Grant for research into education of highly gifted children – 10 Jan 2011
The Dutch Ministry of Education has awarded a € 700.000 grant for the evaluation of excellent education for highly gifted children. The study will be supervised by prof. dr. Ton Mooij, professor of Educational Technology at CELSTEC and sector manager at Research Institute ITS Nijmegen, and it will be done by CELSTEC.

Inaugural address as lector Desirée Joosten-ten Brinke – 11 Jan 2011
4 February 2011 CELSTEC researcher dr. Desirée Joosten-ten Brinke will pronounce her inaugural address as lector Contemporary Assessment (Eigentijds beoordelen) at Fontys Lerarenopleiding in Tilburg (FLOT). The subject of her address is Contemporary testing and assessment.

CELESTEC at the National Education Exhibition (NOT) – 17 Jan 2011
For the third time CELSTEC is present at the Dutch National Education Exhibition (NOT) that takes place in Utrecht from 25 to 29 January 2011. CELSTEC presents its master programme Learning Sciences, the Teacher University (de Lerarenuniversiteit) and its three research programmes.

CELESTEC's Saskia Brand has edited the new Special Issue of Learning & Instruction – 18 Jan 2011
The Journal Learning & Instruction publishes in its April number a special section on Solving information-based problems: Evaluating sources and information. CELESTEC's dr. Saskia Brand-Gruwel and Marc Stadtler of the University of Münster edited the issue. The reviewers selected 9 contributions for publication in this special issue.
Catalan researcher Teresa Guasch at CELSTEC – 21 Jan 2011
As from 2 February until 1 November 2011 Teresa Guasch will join the Learning & Cognition programme at CELSTEC. Teresa Guasch is associate professor at the Universitat Oberta de Catalunya in Barcelona, Spain. At CELSTEC she will research educational supports in a virtual learning environment, specifically e-feedback.

Spanish researcher Beatriz E. Florián Gaviria at CELSTEC – 21 Jan 2011
As from 14 February until 14 May 2011 Beatriz Florián Gaviria will join the Learning Media programme at CELSTEC. Florián is a PhD student at the University of Girona in Spain. At CELSTEC she will research ‘TEL Recommender Systems’.

OU organizes entry exams Maths for Technical University Delft – 24 Jan 2011
As of 1 March 2011 the Open Universiteit organizes the entry exams in Mathematics T for the TU Delft. These exams are obligatory for bachelors who want to start a master programme at the TU Delft but who do not have the necessary prior qualifications in maths.

New augmented reality tool launched at NOT – 31 Jan 2011
Last week, a new augmented reality (AR) tool developed at CELSTEC went live at the NOT (Nederlands Onderwijs Tentoonstelling).

Miniconference: Critical thinking in science – 1 Feb 2011
25 March 2011 the master programme Learning Sciences organizes its next miniconference in the study centre in Eindhoven. The conference theme is ‘Critical thinking in science’. The language of the conference is Dutch.

Seminar 'Learning on the job' (Werkplekleren) at NHL Hogeschool – 10 Feb 2011
February 14th 2011 CELSTEC researcher dr. Bert Hoogveld gives a seminar on the design of learning-on-the-job (werkplekleren) at NHL University in Leeuwarden. The seminar is organized by the Lectorate ‘Learning-on-the-job and ICT’ of the Education and Communication Institute. The language of the seminar is Dutch.

4th edition of the 4C-ID symposium on 14 April – 10 Feb 2011
On 14 April 2011 the 4th edition of the 4C-ID user conference will take place in the study centre of the Open Universiteit in Utrecht. Theme of this conference is: ‘How to design supportive information?’ The conference will be held in Dutch.
Presentation Ralf Klamma on Learning Analytics – 21 Feb 2011
24 February 2011 dr. Ralf Klamma of RWTH (Aachen, Germany) gives a presentation at CELSTEC on Learning Analytics for the Life-Long Long Tail Learner.

Christian Glahn's presentation ‘featured’ on Slideshare – 24 Feb 2011
Christian Glahn's presentation on the use of HTML5 for mobile learning applications has been selected by Slideshare to ‘feature’ on its homepage.

CELSTEC staffmembers as project managers in umbrella programme LEARNING of NIHC – 24 Feb 2011
Prof. dr. Paul Kirschner, programme director of the Learning & Cognition (L&C) programme of CELSTEC, and dr. Renate de Groot, senior lecturer at the L&C programme, are project managers of the umbrella programme LEARNING of the National Initiative Brains & Cognition (NIHC).

Open Educational Resources Stakeholder Workshop – 3 Mar 2011
On 4 March 2011 the KU Leuven and EADTU organize the Open Educational Resources Stakeholder Workshop in Leuven, Belgium, in the framework of the project ‘Innovative OER in European HE (OER HE)’. Open Universiteit participates in this lifelong learning project.

CSERC ’11: programme published – 15 Mar 2011
The programme for Computer Science Education Research Conference (CSERC ’11) has been published. On Thursday 7 and Friday 8 April 2011 you can join presentations on recent research in the field of computer science education.

Presentations by CELSTEC and RdMC at NOiV annual congress 2011 – 18 Mar 2011
Stefaan Ternier, researcher at CELSTEC (Centre for Learning Sciences & Technologies) of the Open Universiteit (OU), and Robert Schuwer, senior lecturer at RdMC (Ruud de Moor Centrum) of the OU, are speakers at the NOiV annual congress 2011 on 24 March 2011 in Media Plaza, Utrecht, The Netherlands.

CELSTEC partner in Nuffic project with Unillanos – 21 Mar 2011
Dr. Adriana Berlanga, lecturer at CELSTEC of Open Universiteit, and prof. dr. Peter Sloep, programme director of the Learning Networks programme of CELSTEC, visited Unillanos in Colombia from 28 February until 4 March 2011, as part of the inception phase of the project NICHE-COL-036, developed by Unillanos.
CELSTEC contributes to special issue Mashup Personal Learning Environments – 23 Mar 2011
Dr. Marco Kalz, assistant professor at CELSTEC of Open Universiteit, is editor of the special issue Mashup Personal Learning Environments of the International Journal of Technology Enhanced Learning.
Additionally papers by Dominique Verpoorten, PhD student at CELSTEC, and dr. Christian Glahn, assistant professor at CELSTEC, are part of this issue, which was published on 16 March 2011

Marco Kalz editor of special issue ‘Mashup Personal Learning Environments’ – 25 Mar 2011
On the 16th of March 2011 a special issue of the International Journal of Technology Enhanced Learning was published. The issue is dedicated to ‘Mashup Personal Learning Environments’. Dr. Marco Kalz, assistant professor at CELSTEC of the Open Universiteit, is one of the editors.

Where can you find learning materials on the internet? How can you re-use them? Why aren’t they re-used more often? What can we learn from this for the future? These are the central questions of the workshop (in Dutch) on the use of digital repositories of learning materials that CELSTEC organises on 21 April 2011 in Eindhoven.

From 18-19 May 2011 the 6th EdReNe seminar takes place in the study centre of the Open Universiteit in The Hague. EdReNe stands for Educational Repositories Network. This network convenes twice a year. The next meeting in The Netherlands is organized by SLO, Open Universiteit and Kennisnet. The overall theme of the seminar is Quality: Quality in metadata, Quality in usefulness and Quality in relevance.

Plugfest e-portfolio – 7 Apr 2011
The Open Universiteit (CELSTEC) in collaboration with NEN and Kennisnet organizes a plugfest e-portfolio and the use of NTA-2035. This plugfest takes place in Delft on 19 April 2011 and addresses in the first place suppliers of e-portfolio’s. But a limited number of places is reserved for users of e-portfolio’s that are interested. The language of the meeting is Dutch.

In April 2011 the book ‘Innovatief onderwijs in de praktijk’ (Innovative education in practice) has been published. This book, edited by CELTEC’s Bert Hoogveld et al, describes in an inspiring way twelve educational programmes that have been developed using het 4C-ID model.
Assessing Competencies in a serious game – 21 Apr 2011
The Open Universiteit and Stichting Praktijkleren are going to develop a digital examination project for the study programs ICT-administrator in the senior secondary vocational education (mbo). The project will have the form of a serious game: students will 'work' for a virtual agency that organizes events. It is their task to develop, test and implement an administrative system.

Renate de Groot elected to the Board of Directors of ISSFAL – 26 Apr 2011
CELSTEC's dr. Renate de Groot is elected to the Board of Directors of ISSFAL. ISSFAL stands for International Society for the Study of Fatty Acids and Lipids. It's an international scientific society established in 1991, of more than 500 members from more than 40 countries.

Workshop on authoring environment Recourse – 2 May 2011
20 April 2011 CELSTEC organized a one-day workshop on the use of Recourse, an authoring environment for adaptive learning designs and online experiments, based on IMS LD.

Presentation on 10 years of educational research into information skills – 12 May 2011
On Friday 13 May 2011 CELSTEC-researcher Iwan Wopereis gives a presentation (in Dutch) on 10 years of educational research into searching, selecting and processing digital information. He will do this during a conference the program Information Services and Management (IDM) of Haagsche Hogeschool organizes for its students and alumni. Registration is also open to other interested parties.

Presentation for teachers about smartphones supporting learning process – 16 May 2011
Dr. Stefaan Ternier, researcher at CELSTEC, gave a presentation for teachers on smartphones supporting the learning process during a conference which took place within the framework of the Interreg-project Linguacluster on Friday 13 May 2011 in congress centre Rolduc in Kerkrade.

Better learning through online discussions – 19 May 2011
Do online discussions make you learn better? That's the central question of the experiment that CELSTEC researcher Amy Hsiao starts in June. Join the experiment and join the discussion on the question 'intelligence: nature or nurture?'.

OU sustainability project awarded by SURFnet – 19 May 2011
The Open Universiteit is one of the five winners of the SURFnet innovation programme Sustainability & ICT 2011. Dirk Börner (CELSTEC) submitted the awarded project with the title 'Energy Awareness Displays – Making the Invisible Visible'.
CELSTEC advises ID College on curriculum redesign – 23 May 2011
13 mei 2011 the innovation project FLEX-ID started at ID College, an institute for secondary vocational education. The name FLEX-ID points to the new way in which ID College wants to organize its competency based education, supported by the Open University as a strategic partner. Wendy Kicken and Bert Hoogveld of CELSTEC will support ID College in this specific project.

Keynote of Peter Sloep on ESSIE conference – 24 May 2011
On May 27th Prof. dr. Peter Sloep of CELSTEC will give a keynote on the annual assembly of the European Society for the Systemic Innovation of Education (ESSIE) in Leuven. His keynote is titled Networked Learning, a Paradigm Shift.

International award for Metabola Game – 24 May 2011
At the yearly conference of the Open Courseware Consortium in Boston the Open Universiteit received an ‘Award for OpenCourseWare Excellence 2011’ in the category multimedia courseware for the Open ER course Metabola Game.

CELSTEC at the Educational Research Days (ORD) – 31 May 2011
On 8, 9 en 10 June 2011 the yearly national Educational Research Days (ORD) take place in Maastricht. Theme of the ORD 2011 is Passion for learning. A large number of CELSTEC researchers present their research at this conference or contribute in another way.

Selfreported competences are more effective predictors of labour market success – 1 Jun 2011
Research by Monique Bijker, Marcel van der Klink and Els Boshuizen of CELSTEC has demonstrated that selfreported competences are powerful positive predictors of labour market success for university trained masters of Business Administration (and Economics).

Lecture Marcus Specht on mobile learning in Madrid – 6 Jun 2011
Thursday 2 June 2011 prof. dr. Marcus Specht of the Centre of Learning Sciences and Technologies of the Open Universiteit gave an invited lecture on the conference "Oportunidades del Mobile Learning para la Universidad y la empresa" (possibilities for mobile learning for university and company) in Madrid. The subject of his lecture was: Onderwerp van zijn lezing was "Linking Sensors, Actuators, and Learning".
Develop virtual school excursions with Streetlearn – 6 Jun 2011
Teachers who develop virtual school excursions for their pupils using a realistic 3D environment like Google Streetview. That is the aim of the project Streetlearn that the Centre for Learning Sciences and Technologies of the Open Universiteit has started in May 2011. The project is co-financed by the SURFnet/Kennisnet innovation programme.

PhD advises: use mobile phones in education – 9 Jun 2011
Mobile phones offer great opportunities for education. If used in the right way, they can have a great added value for education. But the focus should be on addressing problems a learner encounters rather than looking for new ways to introduce technology.

CELESTE's Marcel van der Klink lector at Zuyd University – 9 Jun 2011
Zuyd University has appointed CELSTEC's Marcel van der Klink as 'lector Profesionalisation of Education'. This lectorate aims to stimulate investigating education in professional higher education (hbo) and the consequences for the hbo educators. Van der Klink starts in Augustus 2011 for 0.6FTE at Zuyd and at CELSTEC for 0.4 FTE

Marcus Specht on new innovations in learning in Helsinki – 10 Jun 2011
CELSTEC's prof. dr. Marcus Specht will give an invited talk on the next event of the Cicero Learning Network in Helsinki. Theme of the event is New innovations in learning seminar. It will take place the 14th of June 2011 in Helsinki. Other speakers are dr. Keith Devlin (Stanford University) and prof. Jari Multisilta (Cicero and University of Helsinki).

CELESTE masterclass in Tilburg – 16 Jun 2011
Op 14 juni 2011 hebben Saskia Brand-Gruwel en Johan van Strien, onderzoekers bij CELSTEC, een masterclass gegeven over kennisopvattingen van leerlingen.

Prior information on team members essential for collaboration – 16 Jun 2011
Members of a virtual project team at the start of their collaboration need information about each other in order to assess each others professional trustworthiness. CELSTEC PhD Ellen Rusman explored what information they need and developed a profile template with which to provide it.
Weblectures Hendrik Drachsler at British OU – 17 Jun 2011
Next week CELSTEC researcher Hendrik Drachsler will deliver two lectures at the British Open University. On 23 June 2011 (13.00 GMT) he will deliver a weblecture on Recommender Systems and Learning Analytics in TEL. The next day, 24 June 2011 (13.00 GMT) the subject of his weblecture will be dataTEL - Potentials and Limitations of Educational Datasets.

In March 2011 the dataTEL workshop took place. The aim was to shape and identify the future Grand Challenges for data driven research in Technology Enhanced Learning. This month the result of the workshop, including four new grand challenges, has been published in a white paper on Educational Data Science Research.

Teaching in professional education: guidance instead of control – 21 Jun 2011
Pupils in secondary professional education should control their own learning process. Teachers should support them and provide good feedback. CELSTEC PhD Helen Jossberger demonstrates how teacher can challenge their students and how they could guide them to self-regulated learning. She defends her PhD thesis on 24 June 2011.

Allignment School: getting serious about games – 27 Jun 2011
CELSTEC’s Rob Nadolski has given a lecture on ‘EMERGO-Methology and toolkit for sustainable development of e-cases’ during the Allignment School in Edinburgh (20-24 June 2011). This conference was organised by the GaLA (Games and Learning Alliance) project, a Network of Excellence (NoE) over Serious Games in which CELSTEC participates.

New featured article on Air Traffic Control – 27 Jun 2011
A new featured article has been published. Ludo van Meeuwen, PhD at CELSTEC, tells about his research on Air Traffic Control.

Tutorial on how to use an outline tool – 5 Jul 2011
Milou de Smet, PhD at CELSTEC, is doing research into the effect of the use of an outline tool on the quality of the text students write. As a spin-off she has recorded a tutorial on working with an Outline tool. The tutorial is made for students of the OU, but is also interesting for everybody who has to write texts or essays.

New publication: Book on Eye Tracking – 7 Jul 2011
In July 2011 Oxford University Press publishes the book Eye Tracking. A comprehensive guide to methods and measures. CELSTEC’s Halszka Jarodzka is one of the authors. The book is a comprehensive handbook of eye tracking methodology.
Videoregistrations CSERC conference now available – 11 Jul 2011
Spring 2011 the first CSERC conference took place in Heerlen. The videoregistrations of two lectures are now available on the conference website.

Weblecture Marco Kalz at British OU – 11 Jul 2011
14 July 2011 at 2.00 PM (GMT) CELSTEC’s Marco Kalz will give a weblecture at the British Open University. Subject of his lecture is Structuration of Personal Learning Environments.

Presentation Ellen Rusman at CSCL 2011 – 12 Jul 2011
At the CSCL conference in Hong Kong, CELSTEC’s dr Ellen Rusman gave a presentation on Trustworthy in the Eye of the Beholder? – A Cognitive Perspective on Personal Profile Information in Virtual Project Teams. Prof. dr. Paul Kirschner chaired the long paper session on Technology-enhanced interactions & analysis.

CELSTEC staff at international conferences – 14 Jul 2011
Several CELSTEC researchers have presented papers on international conferences. José Janssen and Francis Brouns contributed at ePIC 2011 in London, Rory Sie and Kamakshi Rajagopal contributed to the programme of the PLE conference in Southampton.

14 October 2011: workshops on 'Leernetwerken' (Learning Networks) – 19 Jul 2011
14 October 2011 CELSTEC organizes three workshops on Learning Networks (leernetwerken) in OU study centre Eindhoven. The occasion to organize this day was the appearance of the book 'Leernetwerken' written by a team of CELSTEC researchers.

New featured article: Renate de Groot on Psychobiological Research – 19 Jul 2011
A new featured article has been published. Renate de Groot, researcher and topic leader Brain, lifestyle and learning at CELSTEC, tells about her research on Psychobiological research.

CELSTEC partner in the SALOMO project – 20 Jul 2011
CELSTEC is partner in the SALOMO project. SALOMO stands for Situational Awareness for LOGistic Multimodal Operations in container supply chains and networks.
Call for papers for e-learning 2011 conference in Belgrade – 21 Jul 2011
From 28 until 30 September 2011 the e-learning 2011 conference will be hosted by the Belgrade Metropolitan University. CELSTEC is co-organizing this event with Marcus Specht as the coordinator of the International Programme Committee.

FTA nominated for Learn for Life international award 2011 – 2 Aug 2011
The Free Technology Academy (FTA), in which the Open University of the Netherlands participates, has received a nomination for the International 2011 award of Learn for Life.

Marcel van der Klink at ATEE conference in Riga – 15 Aug 2011
From 24 to 28 August in Riga (Latvia) the 36th Conference of the Association for Teacher Education in Europe (ATEE) take place. At the conference CELSTEC’s Marcel van der Klink will give a presentation on ‘Professional Development of Teacher Educators: What do they do?’

Summer School Making Sense of Social Media – 15 Aug 2011
Amy Hsiao and Ellen Rusman, researchers at CELSTEC, were invited to attend a workshop at the Summerschool Making Sense of Social Media that will take place in the Swabian Alb (Germany) from 1 to 4 August 2011.

CELESTE presentations at EARLI conference 2011 – 25 Aug 2011
From 30 August until 3 September 2011 CELSTEC staff will give paper presentations and participate in symposia at the 14th biennial EARLI Conference for Research on Learning and Instruction, which will take place at The University of Exeter in Exeter, United Kingdom. The conference theme is ‘Education for a Global Networked Society’.

Expert meeting on Biebkracht – 5 Sep 2011
August 25 and 26 science and library experts met at the Pier of Scheveningen in order to exchange knowledge and good practises in the field of on-line knowledge sharing and networked learning in learning networks.

Gym2Learn: Better school results through more sports – 5 Sep 2011
In the school year 2011-2012 3rd grade pupils of the Grotius college for secondary education in Heerlen will start every day with a gymnastics class. This in order to find out if more sport leads to better school results. The research is done by CELSTEC.
Column Paul Kirschner in professional magazine Didactief – 8 Sep 2011
As of September 2011 CELSTEC's prof. Paul Kirschner writes a two-monthly column in the professional magazine Didactief.

Open Universiteit presents first few integrated iPads for mobile learning – 8 Sep 2011
On 1 September 2011 the first few iPads were presented to students of the programme Schakelzone Recht of the Faculty of Law of the Open Universiteit.

Green light for EMuRgency project – 9 Sep 2011
In September 2011 the INTERREG project EMuRgency has started. This project, led by CELSTEC, focuses on the problems of cardiac arrest in the region Euregio Maas-Rijn (EMR). The primary goal of the project is to achieve that in case of a cardiac arrest bystanders start CPR before the emergency services arrive at the scene.

Adriana Berlanga Appointed National Researcher – 12 Sep 2011
Dr. Adriana Berlanga, from the Learning Networks program, has been named a National Researcher in Social Sciences by Mexico's Council for Science and Technology (CONACyT).

CELSYTEC participation in EC-TEL conference 2011 – 19 Sep 2011
From 20 until 23 September 2011 CELSTEC staff members will participate in the programme committees of the 6th European Conference on Technology Enhanced Learning (EC-TEL). Additionally they will give (paper) presentations and co-organize workshops at the conference that will take place in Palermo, Italy.

CELSYTEC paper at ICT for Language Learning conference in October – 19 Sep 2011
At the ICT for Language Learning (ICT4LL) conference 2011 Slavi Stoyanov and Ellen Rusman will present a paper titled: Exploration of Exploitation Approaches of European Projects on ICT and Foreign Language Learning: the CEFcult Project Case. The ICT4LL takes place in Florence (Italy) on 20 and 21 October 2011.
Adaptive Training for Air Traffic Controllers – 20 Sep 2011
CELSTEC’s Saskia Brand-Gruwel will give a presentation on Adaptive Training for Air Traffic Controllers during the Symposium on Human Factors in Future Aviation. This symposium takes place at Schiphol-Oost on 21 September 2011.

29 September: Webinar - Social Media in Education – 21 Sep 2011
29 September 2011 CELSTEC’s Marion R. Gruber chairs an eduhub webinar about Social Media in Education. She was invited to do so by SWITCH.

Presentation Wilfred Rubens on learning environments – 22 Sep 2011
Thursday 22 September 2011 CELSTEC’s Wilfred Rubens will give a presentation during the conference Professional Learning Europe in Cologne, 2nd European Conference on eLearning, Knowledge Management and Human Ressources Development (Germany).

Open Universiteit host of 8th International Networked Learning Conference – 27 Sep 2011
From 2 to 4 April 2012 the Open Universiteit will host the 8th International Networked Learning Conference at the Maastricht School of Management in Maastricht, The Netherlands. It is an international, research-based conference on networked learning in higher education and lifelong learning.

Paul Kirschner on internet and multitasking during ‘Avond van het Onderwijs’ – 3 Oct 2011
During a meeting on Monday 3 October 2011, taking place prior to the NTR TV broadcast ‘Avond van het Onderwijs’, prof. dr. Paul A. Kirschner of the Centre for Learning Sciences and Technologies (CELSTEC) of the Open Universiteit will tell about sense and nonsense with regard to internet and multitasking.

CELSTEC organizes online masterclasses – 4 Oct 2011
30 September 2011 CELSTEC has started Online masterclasses on topics in the field of education and educational technology. The subject of the first session was How do you learn students to learn autonomously? Wendy Kicken was the expert in this first session that attracted about 100 participants.
Library School has opened – 6 Oct 2011
Thursday 29 September 2011 in Amsterdam the LibrarySchool has officially opened. The LibrarySchool has been developed in a collaboration project of the Dutch public libraries and the Open Universiteit. The LibrarySchool intends to become a community where students, colleagues working on library innovation and external experts meet to explore the future of public libraries.

European project CEFcult presents a learning environment for intercultural communicative competence training – 6 Oct 2011
On Thursday 13 October 2011, the European project CEFcult will present its project results, user experiences and foreseen exploitation paths during a seminar at the Open Universiteit in Heerlen.

2nd Online masterclass on Learning Networks – 10 Oct 2011
On Friday, 14 October 2011 the second Online masterclass will take place. Focus is on online communities. On the internet you can find many online communities. Some are very much alive, others are very inactive. Main question in the master class: how do you make an online community come alive?

Workshops on Learning in and with help of Social Networks – 11 Oct 2011
On 14 October 2011 three workshops will take place in the study centre of the Open Universiteit in Eindhoven on learning in and with help of social networks. Reason for organizing the workshops is the publication of the book Learning Networks. Participants will receive a complimentary copy of this book.

25 November 2011 CELSTEC organizes a miniconference on Biopsychologische determinanten van leren in Utrecht. Participants will be brought up-to-date of the latest scientific insights into the theme. But they are also challenged: what do these scientific results for your daily practice?

Preventing students from quitting school without diploma – 17 Oct 2011
Dr. Wendy Kicken, lecturer at CELSTEC of the Open Universiteit, developed a model for a competence focused career guidance trajectory, in collaboration with project partners. Aim is to prevent students from quitting lower secondary professional education prematurely.

November 4th 2011 the third Online masterclass takes place. Theme is “How do I use serious games in my class? The masterclass is given by prof. dr. Wim Westera, researcher at CELSTEC and director of the Learning Media programme. The masterclass is in Dutch.
Christian Glahn elected for the executive committee of IAmLearn – 27 Oct 2011
At the Annual General Meeting of the International Association for Mobile Learning (IAmLearn), that took place in Beijing, China, dr. Christian Glahn, assistant professor at CELSTEC of the Open Universiteit, was elected as a Member of the association’s executive committee.

Open Universiteit co-organizer of mLearn Conference 2012 in Helsinki – 27 Oct 2011
At the 10th mLearn World Conference on Mobile and Contextual Learning, that took place from 18-21 October 2011 in Beijing, China, the location for next year’s conference was announced. The upcoming mLearn conference 2012 will be held in Helsinki, Finnland.

Learning to see: Role and teaching of perceptual skills – 31 Oct 2011
On 3 November 2011 CELSTEC's dr. Halszka Jarodzka will give a keynote during the ICO Toogdagen, titled Learning to see: Role and teaching of perceptual skills. The Toogdagen are a biennial, two-day networking event of Research School ICO.

Grand Challenges in R&D on Technology Enhanced Learning – 1 Nov 2011
You are invited to attend the pre-conference discussion session on Grand Challenges in R&D on Technology Enhanced Learning at the start of the 2011 Online Educa conference in Berlin. The discussion takes place on Wednesday 30 November from 10.00 till 13.00 hours.

In November the European JRC-IPTS (Joint Research Centre Institute for Prospective Technological Studies) published the report The Future of Learning: Preparing for Change.

Halszka Jarodzka coördinator ICO theme group 3 – 10 Nov 2011
CELSTEC's Halszka Jarodzka has been appointed coordinator of ICO theme group 3: Domein specific instruction together as of 1 January 2012.
ICO is the Interuniversity Centre for Educational Sciences (In Dutch 'Interuniversitair Centrum voor Onderwijswetenschappen' and therefore abbreviated to 'ICO').

Lecture Wim Westera in Aachen – 10 Nov 2011
On 18 November 2011 Wim Westera (CELSTEC) will give a guest lecture at RWTH Aachen University. The lecture is titled Serious gaming and Hightech Entrepreneurship. The audience consists of teachers and students in Informatics of the RWTH and invited specialists from a number of companies in the field of technology.
CELSTEC Hosts SMI's Free Hands-on Eye Tracking Workshop – 22 Nov 2011
9 December 2011 you can enjoy a free SMI Eye Tracking Glasses workshop at CELSTEC. The brandnew SMI Eye Tracking Glasses is demonstrated in this hands-on event. CELSTEC's Halska Jarodzka, co-author of the recently published book on eye tracking methodology will give an introduction.

BIOAPP: teach students in biomedical engineering to innovate – 24 Nov 2011
In November 2011 the BIOAPP project has started. The project develops a framework to integrate 'learning to innovate' in biomedical engineering study programmes on higher educational level. In this project CELSTEC collaborates with medical and biomedical faculties of three European universities and two SME's.

The StreetLearn project has developed and tested a serious game using Google Streetview to create the 3D surroundings of the game. The learner/gamer is a police officer searching for a drugs dealer and his stash. The game is situated in the centre of Amsterdam, the 'grachtengordel', that forms part of the Unesco cultural heritage.

Paul Kirschner and Liesbeth Kester editors of JCAL – 28 Nov 2011
CELSTEC's Paul Kirschner and Liesbeth Kester are appointed editor and assistant editor of Journal of Computer Assisted Learning (JCAL). Paul and Liesbeth will be taking up their duties on January 1st 2012, and will be handling the editorial management of JCAL submissions as of that date.

Doctoral grant for teacher Stoas – 5 Dec 2011
23 November 2011 the Netherlands Organisation for Scientific Research (NWO) has decided to award a doctoral grant to drs. Hennie van Heijst, teacher at Stoas hogeschool. Her research proposal is titled: 'Knowledge development in an online environment: towards a better result'. Prof. dr. Paul A. Kirschner van CELSTEC and dr. Frank de Jong van Stoas Hogeschool in Wageningen are her supervisors.

OpenU masterclass on information skills – 6 Dec 2011
16 December 2011 the 5th Online masterclass takes place. The masterclass is titled 'Google je wijs' (get smart googling). Dr Saskia Brand-Gruwel, researcher at CELSTEC, will give the masterclass. The masterclass is in Dutch.

CELSTEC in new European gaming project – 12 Dec 2011
CELSTEC and 5 European partners are going to develop a serious game for students in the domain of Care and Welfare. For the development of the game CELSTEC will also collaborate closely with the department Care, Service and Welfare (Zorg, Dienstverlening en Welzijn) of the Arcus College in Heerlen.
Kirschner visiting professor at the University of Oulu – 12 Dec 2011
CELSTEC's prof. dr. Paul Kirschner has been appointed Visiting Professor in Education at the University of Oulu in Finland. As visiting professor in 'Learning and Interaction in Teacher Education' he will join the Department of Educational Sciences and Teacher Education.

OU researches visitor's brains in Continium Kerkrade – 15 Dec 2011
Visitors to the exhibition Get Smart – Entertain your Brain in the Discovery Center Continium in Kerkrade can participate in CELSTEC's research into the functioning of the brain. Find out how you look at the exposition using an eye tracker. Experience the effect of fatigue on the functioning of your brain.

Library School student wins Library Innovation Award 2011 – 16 Dec 2011
Pieter Offermans of Biblioservice Gelderland has won the Library Innovation Project Award 2011 for his project De Verhalencoach. Offermans is a student of the Library School, a collaboration project of public libraries and Open Universiteit. Offermans and his colleague project members Joyce Sternhei and Wilmoed Bijlisma received the award at a two-day Library conference in Groningen.

Dutch State Secretary Zijlstra presents doctoral grant for PhD at Open Universiteit to teacher Stoas – 22 Dec 2011
21 December 2011 Halbe Zijlstra, State Secretary of the Dutch Ministry of Education, Cultural Affairs and Science, presented a doctoral grant to drs. Hennie van Heijst for her PhD at the Open Universiteit. Her research proposal is titled: 'Knowledge development in an online environment: towards a better result'.
Annex 2  De Topics van CELSTEC

Binnen CELSTEC zijn een aantal "Topics" gedefinieerd die de activiteiten van CELSTEC zoveel mogelijk afdekken. De topics worden opgezet als communities in OpenU, een platform waarin kennis wordt gedeeld, diensten en producten worden aangeboden.

Doel
Er zijn een aantal redenen te geven waarom binnen CELSTEC is gekozen voor het clusteren van activiteiten door middel van topics:
1. Onderzoeks-, innovatie- en onderwijsactiviteiten bundelen op een bepaald gebied.
2. Zichtbaar maken aan de buitenwereld welke activiteiten we verrichten (verantwoording, kennisdeling, reputatieversterking)
3. Samenwerken met de buitenwereld (o.a. acquisitie en uitvoering 2e/3e geldstroom projecten, participatie van externe partijen)
4. Interne professionalisering en kennisdeling. Nieuwe medewerkers kunnen via de topics snel worden ingevoerd in de kennis die noodzakelijk is. Andere medewerkers kunnen snel kennis nemen van hetgeen in andere programma’s en topics gebeurt.

Criteria waaraan topics moeten voldoen
Niet alle onderwerpen waar we kennis van hebben of waar vraag naar is kunnen we als topic community opzetten en onderhouden. De criteria voor het lanceren van een topic zijn de volgende:
1. Het onderwerp van een topic moet maatschappelijk relevant zijn, d.w.z.:
   - er is maatschappelijk vraag naar kennis over het onderwerp.
   - beoogde of gerealiseerde oplossingen kunnen maatschappelijke problemen oplossen, nu of in de toekomst.
   - de voorgestelde oplossingen (gebaseerd op kennis) zijn gebleken succesvol te zijn in de praktijk (voor zover het topic al langer bestaat).
2. Een topic moet de potentie hebben om 2e/3e geldstroom projecten te genereren en de activiteiten van deze projecten te koppelen, waardoor de focus en massa toeneemt. Liefst ook externe sponsor, samenwerkingspartner(s) per topic.
3. De kennis en technologieën die in het topic worden behandeld, moeten up-to-date zijn en wetenschappelijk verantwoord.
5. Een topic moet levensvatbaar en vitaal zijn, d.w.z. dat een aantal CELSTEC medewerkers zich hier dagelijks mee bezig houdt, dat er minstens één of twee personen zijn die een goede (inter-)nationale reputatie op dit vlak hebben en dit topic zien als de kern van hun expertise.
6. Een topic moet ook in het geheel aan topics passen en het geheel moet de kernactiviteiten van CELSTEC voldoende representeren.

Topics zijn dynamisch
Een topic heeft vaak een levenscyclus: in de opbouwfase zal het nog niet even goed aan alle criteria voldoen, daar wordt dan planmatig naar toe gewerkt. Afhankelijk van de ontwikkelingen in wetenschap, technologie of markt kan de aandacht voor een topic ook weer afnemen.
Lijst met Topics in L&T
Onderstaande figuur geeft een overzicht van de actuele topics binnen CELSTEC.

Positionering van Topics
Er zijn diverse entiteiten die van belang zijn om het geheel aan activiteiten in CELSTEC te representeren. Topics spelen daarin een centrale rol, maar er zijn er meer. Er wordt onderscheid gemaakt tussen de volgende, samenhانgende entiteiten:

1. Portaal van het vak-/kennisgebied (Onderwijs- en Leerwetenschappen). Het portaal omvat trajecten, topics, cursussen, webinars en andere typen events.

2. Trajecten. Deze bevatten een serie cursussen, events en andere activiteiten die uit een of meer topics kunnen komen. Een voorbeeld is een Mastertraject, maar ook de BKO of een persoonlijk samengesteld traject.

3. Topics: kunnen groter of kleiner zijn en op onderwerpen overlap vertonen. Bijvoorbeeld: mobiel leren wordt waarschijnlijk in meer dan een topic gebruikt (maar dan vindt er geen onderzoek plaats naár mobiel leren, maar er wordt wel gebruik gemaakt van)


De relatie tussen topics, cursussen, events en trajecten wordt in het volgende figuur verhelderd.

De figuur geeft aan dat topics van alles bevatten: cursussen (WHW, niet-WHW, kort/lang) events en webinars. Trajecten kunnen weer uit deze elementen worden samengesteld uit één of meer topics. Alle topics worden samen gepresenteerd in het integratiepunt, het portaal.
Annex 3  Publications and memberships of CELSTEC staff

Annex 3.1  Learning & Cognition

Category 1. Academic publications
Publication in ISI journals


Book


Book section


Refereed paper in conference proceedings

Dissertation


PhD-proposal

Category 2. Professional publication


Kirschner, P. A. (2011, September). Een beetje wetenschap is gevaarlijk! [A little science is dangerous!]. COTimes, 3, 3. Available at http://portal.ou.nl/nl/web/pki/blog/-/blogs/1542243;jsessionid=290D80B8809693F8CC64CB1DB79EDD80

Category 3. Contribution to conferences and congresses


annual meeting of the European Association for Research on Learning and Instruction, Exeter, UK.


Jarodzka, H. (2011, November). *Building experiments with E-prime and eye tracking software (SMI & Tobii).* Presentation at the "Let's get technical" workshop at CELSTEC, Heerlen, The Netherlands. [Internal]


Kester, L., Firsova, O., Gorissen, C., & Kirschner, P. A. (2011, June). *De effecten van tests en aandachtssturing op het onthouden van tekst.* [The effect of tests and


Van Merriënboer, J. J. G. (2011, 3 September). *Education for a global networked society: Online collaborative learning in higher education*. Presentation at the
biannual conference of the European Association for Research on Learning and Instruction (EARLI), Exeter, UK. 


**Category 4. Professional product (Technical) report**


**Software / Specification / Example IMS-LD package**


**Category 5. Masterclass / Education & Training**


**Media**
**Newspaper**


**Radio**


**TV**


**Memberships**
**Executive Committee**
Kirschner, P. A. (2011). Member of the Advisory Council of the Stoas Professional University Master of Learning and Instruction for (Green) Education and Companies.
Kirschner, P. A. (2011). Member of the Scientific Advisory Board of the Centre for e-Learning Technology (CeLTech) at the German Research Center for Artificial Intelligence (DFKI), Saarland University, Germany.
Kirschner, P. A. (2011). Member of the International Advisory Board of Games and Professional Simulations (GAPS) at the University of Wisconsin, Madison
Kirschner, P. A. (2011). Member of the International Advisory Group for the Australian Learning and Teaching Council (ALTC)-funded project, "Blended synchronicity: Uniting on-campus and distributed learners through media-rich real-time collaboration tools".
Kirschner, P. A. (2011). Member of the Scientific Council of Project Brain (Continuum Science Center)
McKenney, S. (2011). Member of the school board Primato, the association of all public primary schools in Hengelo.
McKenney, S. (2011). Member of the Advisory board of the Professional University Edith Stein.

Membership of Programme Committees, professional conference

Membership of Programme Committees, scientific conference

**Membership of the Editorial Board (journals, books, special issues)**

Mooij, T. (2011). Member of the editorial board of assessors of Emotional and Behavioural Difficulties.

**Board Membership of National and International Academic Organisations**


McKenney, S. (2011). Board member of the Curriculum Division (Theme IV) of the Dutch Interuniversity Center for Educational Sciences (ICO).


Membership of Scientific organisations
Bezdan, E. (2011). PhD member of Research School ICO [Interuniversity Center for Educational Sciences].


Bezdan, E. (2011). Member of the research network European Research on Learning and Instruction (EARLI).


Bijker, M. (2011). PhD Member of EARLI [the European Association for Research on Learning and Instruction].


Boshuizen, H. P. A. (2011). Staff member of Research School ICO [Interuniversity Center for Educational Sciences].

Brand-Gruwel, S. (2011). European Association for Staff member of Research School ICO [Interuniversity Center for Educational Sciences].


De Groot, R. H. M. (2011). Member of Research School ICO [Interuniversity Center for Educational Sciences].

De Groot, R. H. M. (2011). Member of the European Association for Research on Learning and Instruction (EARLI).

De Smet, M. (2011). Member of the Junior Researchers network (JURE) of the research network European Research on Learning and Instruction (EARLI).


Dirkx, K. J. H. (2011). Member of the Educational Committee of Research School ICO [Interuniversity Center for Educational Sciences].

Dirkx, K. J. H. (2011). Member of the research network European Research on Learning and Instruction (EARLI).

Fastré, G. (2011). PhD member of Research School ICO [Interuniversity Center for Educational Sciences].


Firssova, O. (2011). Member of the European Association for Research on Learning and Instruction (EARLI).

Gorissen, C. (2011). PhD member of Research School ICO [Interuniversity Center for Educational Sciences].


Gorissen, C.J.J. (2011). PhD member of the research network European Research on Learning and Instruction (EARLI).


Helsdingen, A. (2011). Post doc Member of the Educational Committee of Research School ICO [Interuniversity Center for Educational Sciences].


Jarodzka, H. (2011). Member of the Junior Researchers network (JURE) of the research network European Research on Learning and Instruction (EARLI).


Kester, L. (2011). Staff member of Research School ICO [Interuniversity Center for Educational Sciences].


Kester, L. (2011). Member of the European Association for Research on Learning and Instruction (EARLI).


Kirschner, P. A. (2011). Staff member of Research School ICO [Interuniversity Center for Educational Sciences].
Kirschner, P. A. (2011). Member of the Association for Educational Communication and Technology (AECT).
Kirschner, P. A. (2011). Member of the European Association for Research on Learning and Instruction (EARLI).
McKenney, S. (2011). Member of the European Association for Research on Learning and Instruction (EARLI).
McKenney, S. (2011). Member of the (Dutch) Inter-university Center for Educational Research (ICO).
Mooij, T. (2011). Member of the Association for Educational Communications and Technology (AECT).
Mooij, T. (2011). Member of the European Association for Research on Learning and Instruction (EARLI).
Reijners, P. B. G. (2011). PhD member of Research School ICO [Interuniversity Center for Educational Sciences].
Reijners, P. B. G. (2011). Member of the Educational Committee of Research School ICO [Interuniversity Center for Educational Sciences].
Taminiau, E. M. C. (2011). PhD member of Research School ICO [Interuniversity Center for Educational Sciences].
Van der Klink, M. R. (2011). Staff member of Research School ICO [Interuniversity Center for Educational Sciences].
Van Meeuwen, L. (2011). Member of the Junior Researchers network (JURE) of the research network European Research on Learning and Instruction (EARLI).
Van Meeuwen, L. (2011). Member of European Association for Aviation Psychology (EAAP).
Van Meeuwen, L. (2011). PhD member of Research School ICO [Interuniversity Center for Educational Sciences].
Van Mierlo, Ch. (2011). Member of the Junior Researchers network (JURE) of the research network European Research on Learning and Instruction (EARLI).
Van Mierlo, Ch. (2011). Postdoc member of Research School ICO [Interuniversity Center of Educational Sciences].
Van Strien, J. L. H. (2011). Member of the Junior Researchers network (JURE) of the research network European Research on Learning and Instruction (EARLI).
Wopereis, I. G. J. H. (2011). Member of the Junior Researchers network (JURE) of the research network European Research on Learning and Instruction (EARLI).

Others
Mooij, T. (2011). Member of the Consultancy Group of Acadin (a project of Kennisnet and SLO to develop digitally enriched learning processes for highly able learners in primary education).

Awards
Annex 3.2 Learning Media

Category 1. Academic publications

Publication in ISI journals

Publication in ICO-accepted journals

Publication in SIKS journals

Book section

**Refereed paper in conference proceedings**


**Dissertation**


**Category 2. Professional publication**


**Category 3. Contribution to conferences and congresses**


Greller, W. (2011, 14 December). Entwicklungskonzept für die PH-OÖ. Presentation to the Board of Governours at the PH Oberösterreich, Austria.


Category 4. Professional products
(technical) report


Software / Specification / Example IMS-LD package


Category 5. Masterclass / Education & Training
Memberships

Executive Committee


Membership of Programme Committees, professional conference

Membership of Programme Committees, scientific conference
Börner, D. (2011). International Conference E-Learning, Distance Education or ... the Education of 21st Century (ELDE).
Kalz, M. (2011). Programme Committee Member of the Workshop on Data sets for Technology Enhanced Learning (DATATEL 2011) in conjunction with the Alpine Rendez-Vous (ARV) Conference organized by the STELLAR Network of Excellence. La Clusaz, France.


Specht, M. (2011). Program Committee Member of the 1st International Workshop on Enhancing Learning with Ambient Displays and Visualization Techniques (VIZTEL’11), September, 20-23, 2011, Palermo, Italy.


**Membership of the Editorial Board (journals, books, special issues)**


Hummel, H. G. K. (2011). Reviewer for British Journal of Educational Technology (BJET);

http://www.ifets.info/others/

http://www.computer.org/portal/web/tlt


http://www.humantechnology.jyu.fi

Hummel, H. G. K. (2011). Reviewer for Computers in Human Behavior (CHB);
http://www.journals.elsevier.com/computers-in-human-behavior/


Board Membership of National and International Academic Organisations
Greller, W. (2011). Member of Advisory Board of the JISC project on Arts Learning and Teaching Online (ALTO).

Membership of Scientific organisations
Glahn, C. (2011). Member of the International Association for Mobile Learning (IAMLearn).
http://www.acm.org/
Nadolski, R. J. (2011). Staff member of Research School ICO [Interuniversity Center for Educational Sciences].
Nadolski, R. J. (2011). Member of the research network European Research on Learning and Instruction (EARLI).
Specht, M. (2011). Staff member of Research School ICO [Interuniversity Center for Educational Sciences].
Van Rosmalen, P. (2011). Staff member of Research School ICO [Interuniversity Center for Educational Sciences].

Others

Awards
--
Annex 3.3 Learning Networks

Category 1. Academic publications

Publication in ISI journals


Publication in ICO-accepted journals


Publication in SIKS journals

Book


Book section


integrating IMS LD with IMS QTI. In F. Lazarinis, S. Green, & E. Pearson (Eds.), *E-Learning Standards and Interoperability: Frameworks and Issues* (pp. 1-20). IGI Global.


Rubens, W. (2011). Over de didaktiek van social media in de dagelijkse lespraktijk. In L. Hilgers, T. van Zadelhoff, & 123 co-auteurs (Eds.), *BoekTweePuntNul (Onderwijedition)* (pp. 15-17). Leiden Van Buurt Boek BV.


**Refereed paper in conference proceedings**


Dissertation
http://hdl.handle.net/1820/3411

Category 2. Professional publications


Category 3. Contribution to conferences and congresses


identification and implementation of novel patient handoff processes in Europe.
Presentation at Learning Networks meeting, Heerlen, The Netherlands. [Internal]


Sloep, P. B. (2011, 23 September). *Gebruik van sociale media in het onderwijs: wat is
wijsheid? Presentatie ter gelegenheid van de 27e dies natalis van de Open Universiteit, Heerlen, Nederland.


**Category 4. Professional products**

**(Technical) report**


Software / Specification / Example IMS-LD package

Category 5. Masterclass / Education & Training

Memberships
Executive Committee

Membership of Programme Committees, professional conference


Membership of the Editorial Board (journals, books, special issues)
Brouns, F. M. R. (2011). Reviewer for Interactive Learning Environments


Sloep, P. B. (2011). Social Networks, Computational Aspects and Data Mining. Volume 3, Computational Social Networks


International.

**Board Membership of National and International Academic Organisations**
Greller, W. (2011). Member of Advisory Board of the JISC project on Arts Learning and Teaching Online (ALTO).

**Membership of Scientific organisations**
Berlanga, A. J. (2011). Staff member of Research School ICO [Interuniversity Center for Educational Sciences].
Bitter-Rijpkema, M. (2011). Staff member of Research School ICO [Interuniversity Center for Educational Sciences].
Boon, M. J. J. P. M. (2011). Staff member of Research School ICO [Interuniversity Center for Educational Sciences].
Brouns, F. M. R. (2011). Staff member of Research School ICO [Interuniversity Center for Educational Sciences].
Janssen, J. (2011). Staff member of Research School ICO [Interuniversity Center for Educational Sciences].
Koper, R. (2011). Staff member of Research School ICO [Interuniversity Center for Educational Sciences].
Sloep, P. B. (2011). Staff member of Research School ICO [Interuniversity Center for Educational Sciences].
Stoyanov, S. (2011). Staff member of Research School ICO [Interuniversity Center for Educational Sciences].
Van der Klink, M. R. (2011). Staff member of Research School ICO [Interuniversity Center for Educational Sciences].
Van Rosmalen, P. (2011). Staff member of Research School ICO [Interuniversity Center for Educational Sciences].

Others
Koper, R. (2011). Member Instellingsvisitatie Onderzoek Ierland
Van Bruggen, J. M. (2011). Member of the reviewers pool of European Science Foundation.

Awards
Annex 3.4  Instellingsbreed Programma Onderwijs (IPO) / CELSTEC General

IPO-Report
Prolfotsverslag

Docenten (tutoren) IPO-BKO:
Externe inhuur: Derks, H., Edlinger, B. (IOWO – RUN)

Totaal aantal workshops/cursussen: 30, 176 deelnemers.
Spoelstra, H. (2011, 6, 13 en 27 Januari; 10 en 24 Februari; 7, 9 en 30 Juni; 3, 4 en 11 Oktober; 14, 16 en 23 November). Online begeleiding (Online Kennismaking + Moderatorentraining 1en2).
**Individuele training**

Firsova, O. (2011, 7 Juli). *Leertheorieën en didactiek*. Available at [http://hdl.handle.net/1820/4109](http://hdl.handle.net/1820/4109)

Schlusmans, K. (2011, 10 Februari). *Cursus(her)ontwerp+Ontwikkeling van OU-onderwijs*.

**Docentondersteuning in het kader van IPO**


**Workshops en Presentaties extern**


**Memberships CELSTEC general**

**Others**


Annex 4   Internationally funded projects
<table>
<thead>
<tr>
<th>Title project</th>
<th>Omschrijving</th>
<th>Partners</th>
<th>Land</th>
<th>Rol</th>
<th>Subsidie totaal</th>
<th>Subsidie CELSTEC</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GALA FP7</strong></td>
<td><strong>1-10-2009 / 30-9-2014</strong></td>
<td><strong>Network of Excellence Game and Learning Alliance</strong> GALA aims to shape the scientific community and build a European Virtual Research Centre aimed at gathering, integrating, harmonizing and coordinating research on SGs and disseminating knowledge, best practices and tools as a reference point at an international level.</td>
<td>Università Degli Studi di Genova Open Universiteit / CELSTEC Universite Paul Sabatier Toulouse III Ministerul Apararii Nationale Serious Games Interactive University of the West of Scotland Atos Universitaet Graz Universidad Complutense de Madrid Coventry University PlayGen Ltd Heriot-Watt University Inesc ID Instituto de Engenharia de Sistemas e Computadores, Investigacao e Desenvolvimento em Lisboa Technische Universiteit Delft</td>
<td>IT NL FR RO DK GB ES AT ES NL GB PT NL FR IT NL GB</td>
<td>coördinator partners</td>
<td>5.649.994 172.740</td>
</tr>
<tr>
<td><strong>Grapple FP7</strong></td>
<td><strong>1-2-2008 / 31-1-2011</strong></td>
<td><strong>Generic Responsive Adaptive Personalized Learning Environment</strong> The Grapple project aims at delivering to learners a technology-enhanced learning environment that guides them through a life-long learning experience, automatically adapting to personal preferences, prior knowledge, skills and competences, learning goals and the personal or social context in which the learning takes place.</td>
<td>Technische Universiteit Eindhoven Open Universiteit / CELSTEC Leibniz Universität Hannover Vrije universiteit Brussel University of Warwick Università della Svizzera Italiana Universität Graz Deutsches Forschungszentrum für Künstliche Intelligenz The Provost, Fellows and Scholars of the Holy and undivided Trinity of Queen Elizabeth near Dublin Université Catholique de Louvain The Chancellor, Master and Scholars of the University of Cambridge GiuntiLabs IMC Information Multimedia Communication AG ATOS Origin Sociedad Anonima Espanola</td>
<td>NL NL GB BE GB IT AT DE IE BE GB</td>
<td>coördinator partners</td>
<td>3.850.000 412.040</td>
</tr>
<tr>
<td>Titel project</td>
<td>Omschrijving</td>
<td>Partners</td>
<td>Land</td>
<td>Rol</td>
<td>Subsidie totaal</td>
<td>Subsidie CELSTEC</td>
</tr>
<tr>
<td>--------------</td>
<td>-------------</td>
<td>----------</td>
<td>------</td>
<td>-----</td>
<td>----------------</td>
<td>-----------------</td>
</tr>
<tr>
<td><strong>iCoper</strong> FP7</td>
<td>Interoperable content for performance in a competency-driven society</td>
<td>Wirtschaftsuniversität Wien, Open Universiteit / CELSTEC</td>
<td>AT</td>
<td>coördinator</td>
<td>4.799.189</td>
<td>205.115</td>
</tr>
<tr>
<td>1-9-2006 / 28-2-2011</td>
<td></td>
<td>The Open University, University of Cyprus, University of Jyväskylä, IMC AG, Tallinn University</td>
<td>GB, CY, FI, EE</td>
<td>partners</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chambre de Commerce et d’Industrie de Paris, Jozef Stefan Institute, IT, Pole, University of Vienna, University Carlos III de Madrid</td>
<td>AT, ES</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>projectnr.</td>
<td></td>
<td>AGH University of Science and Technology, Kaunas University of Technology, Knowledge Markets Consulting GesmbH, Oslo University College, Synergytics NV</td>
<td>PL, LT, AT</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>417007</td>
<td></td>
<td>GIantLabs, Katholieke Universiteit Leuven, Umela University, Humance</td>
<td>BE, BE, DE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>eContentPlus</td>
<td></td>
<td>EUN European Schoolnet, Open Universiteit / CELSTEC, JRC, RWTH</td>
<td>BE, NL, BE</td>
<td>coördinator</td>
<td>449.889</td>
<td>105.043</td>
</tr>
<tr>
<td>TeLLNet LLP</td>
<td>To study the eTwinning network (60.000 teachers) through visualization techniques, social network analysis and a number of complimentary methods.</td>
<td>EUN European Schoolnet, Open Universiteit / CELSTEC</td>
<td>BE</td>
<td>coördinator</td>
<td>449.889</td>
<td>105.043</td>
</tr>
<tr>
<td>1-12-2009 / 30-11-2012</td>
<td></td>
<td>JRC, RWTH</td>
<td>BE</td>
<td>partners</td>
<td></td>
<td></td>
</tr>
<tr>
<td>projectnr.</td>
<td></td>
<td>Gemeente Den Bosch, ROC Koning Willem I College Den Bosch, Sancta Maria Mavo</td>
<td>NL, NL, AT</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>505594</td>
<td></td>
<td>Steirische Volkswirtschaftliche Gesellschaft, Van Maerlant College, Hervion College</td>
<td>AT, NL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ds Pierson College, SO/VSO De Rietlanden, Heineken Nederland Supply</td>
<td>NL, NL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Philips Electronics Nederland, ACRITAS BV</td>
<td>NL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Einstein4all</strong> LLP</td>
<td>In dit project is een model voor een competentiegericht loopbaanbegeleidings-traject ontwikkeld. Doel is vroegtijdige schooluitval in het mbo tegen te gaan.</td>
<td>Gemeente Den Bosch, Open Universiteit / CELSTEC</td>
<td>NL</td>
<td>coördinator</td>
<td>300.000</td>
<td>34.358</td>
</tr>
<tr>
<td>1-10-2009 / 30-9-2011</td>
<td></td>
<td>ROC Koning Willem I College Den Bosch, Steirische Volkswirtschaftliche Gesellschaft, Sancta Maria Mavo</td>
<td>NL, NL, AT</td>
<td>partners</td>
<td></td>
<td></td>
</tr>
<tr>
<td>project nr.</td>
<td></td>
<td>Van Maerlant College, Hervion College</td>
<td>NL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2009-1-NL-1-LEO05-01599</td>
<td></td>
<td>Ds Pierson College, SO/VSO De Rietlanden</td>
<td>NL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Heineken Nederland Supply, Philips Electronics Nederland</td>
<td>NL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACRITAS BV</td>
<td>NL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>BioApp</strong> LLP</td>
<td>Biodesign for Healthcare Applications a novel educational module to be designed and delivered to undergraduate engineering and medical third level students across Europe.</td>
<td>University College Cork, Open Universiteit / CELSTEC, Katholieke Universiteit Leuven, Semelweis University, Newsweaver, Open Innovation Partners</td>
<td>IE, NL, BE, HU, IE</td>
<td>coördinator</td>
<td>224.631</td>
<td>46.756</td>
</tr>
<tr>
<td>1-10-2011 / 30-9-2013</td>
<td></td>
<td>Biodesign for Healthcare Applications a novel educational module to be designed and delivered to undergraduate engineering and medical third level students across Europe.</td>
<td>IE, NL, BE, HU, IE</td>
<td>partners</td>
<td></td>
<td></td>
</tr>
<tr>
<td>projectnr.</td>
<td></td>
<td>University College Cork, Open Universiteit / CELSTEC, Katholieke Universiteit Leuven, Semelweis University, Newsweaver, Open Innovation Partners</td>
<td>IE, NL, BE, HU, IE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>518287-LLP-1-IE-ERASMUS-FEXI</td>
<td></td>
<td>Biodesign for Healthcare Applications a novel educational module to be designed and delivered to undergraduate engineering and medical third level students across Europe.</td>
<td>IE, NL, BE, HU, IE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Titel project</td>
<td>Omschrijving</td>
<td>Partners</td>
<td>Land</td>
<td>Rol</td>
<td>Subsidie totaal</td>
<td>Subsidie CELSTEC</td>
</tr>
<tr>
<td>---------------</td>
<td>--------------</td>
<td>---------</td>
<td>------</td>
<td>-----</td>
<td>----------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>STELLAR FP7</td>
<td>Sustaining Technology Enhanced Learning Large-scale Network to unify the diverse community, multidisciplinary Research.</td>
<td>The Open University, Open Universiteit / CELSTEC, Université Joseph Fourier, Ludwig-Maximilians Universität München, University of Bristol, University of Nottingham, Leibniz Universität Hannover, Knowledge Media Research Centre, Centre for Social Innovation, Ecole Polytechnique Fédérale de Lausanne, Katholieke Universiteit Leuven, Istituto Tecnologie Didattiche, Consiglio Nazionale Ricerche, Know Centre, University of Freiburg, Atos Origin s.a.e., SCIENTER, Sustaining Technology Enhanced Learning Large-scale Network to unify the diverse community, multidisciplinary Research.</td>
<td>GB, NL, FR, DE, GB, DE, DE, DE, CH, BE, AT, IT, DE, ES, NL, UK, NL, DE, BE, BE, IT, DE, ES</td>
<td>coördinator, partners</td>
<td>4.993.330</td>
<td>406.989</td>
</tr>
<tr>
<td>eXcellence Next LLP</td>
<td>Developing eXcellence instruments as QA system for e-learning</td>
<td>EADTU, Open Universiteit / CELSTEC, University of Oulu, The Open University, Universidad Nacional de Educación, Prose, United Nations Educational Scientific Riga Technical University, Avoiko Mavetiotnuio Rurppou, Akademia Gorniczo-Hutnicza, Kaunal University of Technology, Universidade Aberta, Ehnviko Avoiko Mavetiotnuio, Ned-Vlaamse Accreditatieorganisatie, Vlaamse IR, Vlaamse Hogeschoolenraad</td>
<td>NL, FI, GB, ES, BE, FR, CY, PL, LT, PT, GR, NL, BE</td>
<td>coördinator, partners</td>
<td>267.328</td>
<td>18.605</td>
</tr>
<tr>
<td>SALOMO</td>
<td>Situational Awareness for Logistic Multimodal Operations in container supply chains and networks</td>
<td>TRAIL Research School TU Delft, Open Universiteit / CELSTEC, InThere, Delft, TBM, Delft, TBA, Delft, TeamSupport, Rotterdam World Gateway, APM Terminals Maasvlakte II</td>
<td>NL, NL, NL, NL, NL, NL, NL, NL, NL</td>
<td>coördinator, partners</td>
<td>943.721</td>
<td>110.040</td>
</tr>
<tr>
<td>EMurGency</td>
<td>Het project richt zich op de problematiek van een hartstilstand in de Euregio Maas-Rijn (EMR). Het belangrijkste doel van het project is er voor te zorgen dat er aanzienlijk vaker met reanimatie gestart wordt voor de komst van de hulpdiensten d.m.v. het bouwen van een innovatieve technische infrastructuur.</td>
<td>Open Universiteit / CELSTEC, Universitätsklinikum Aachen, RWTH/IMA, Universiteit Maastricht, Ziekenhuis Oost-Limburg, K.U. Leuven, CHR Citadelle, CECOPETE, EMurGency</td>
<td>NL, DE, DE, NL, BE, BE, BE</td>
<td>coördinator, partners</td>
<td>2.917.569</td>
<td>454.056</td>
</tr>
<tr>
<td>Titel project</td>
<td>Omschrijving</td>
<td>Partners</td>
<td>Land</td>
<td>Rol</td>
<td>Subsidie totaal</td>
<td>Subsidie CELSTEC</td>
</tr>
<tr>
<td>--------------</td>
<td>--------------</td>
<td>----------</td>
<td>------</td>
<td>-----</td>
<td>----------------</td>
<td>-----------------</td>
</tr>
<tr>
<td><strong>OpenScout</strong> FP7</td>
<td>Skill based scouting of open user-generated and community-improved content for management education and training. Aims at accelerating the use, improvement and distribution of open content in the field of management education and training with a focus on SMEs.</td>
<td>University of Jyväskylä, The Open University, IMC AG, GiuniLabs, EFMD European Foundation for Management Development, INSEAD, University of Sofia, Josef Stefan Institute, Vytautas Magnus Universit, University of Hannover, Hypathia, Fraunhofer Institute of Applied Information Technology, ESCP-EAP Europäische Wirtschaftshochschule Berlin e.V., IMC AG, GiuntiLabs, EFMD European Foundation for Management Development, INSEAD, University of Sofia, Josef Stefan Institute, Vytautas Magnus Universit, University of Hannover, Hypathia, Fraunhofer Institute of Applied Information Technology, ESCP-EAP Europäische Wirtschaftshochschule Berlin e.V.</td>
<td>FI, NL, GB, BE, DE, IT, BG, SL, LT, FR, NO</td>
<td>coördinator partners</td>
<td>€2.800.000</td>
<td>€213.476</td>
</tr>
<tr>
<td><strong>LTFLL FP7</strong></td>
<td>Language Technologies for Lifelong Learning project aims at creating support and advice services to enhance building of competences and knowledge creation.</td>
<td>Open Universiteit / CELSTEC, Universiteit Utrecht, Eberhard Karls Universität Tübingen, Wirtschaftsuniversität Wien, Université Pierre-Mendès France, Politehnica University of Bucharest, Aurus Kennis- en Trainingsystemen, The University of Manchester, Institute for parallel processing of the Bulgarian Academy of Sciences, BIT Media E-learning solution GMBH</td>
<td>NL, DE, AT, FR, NO, NL, GB</td>
<td>coördinator partners</td>
<td>€2.849.603</td>
<td>€538.560</td>
</tr>
<tr>
<td><strong>Cefcult LLP</strong></td>
<td>Het project is gericht op online assessment van de mondelinge taalvaardigheid (spreekvaardigheid) in internationale professionele communicatie.</td>
<td>Katholieke Universiteit Leuven, Open Universiteit / CELSTEC, GREOP T internationale Hogeschool Leuven, Technische universiteit Dresden, Université de Savoie, Università degli Studi di Bologna, Universytet Łódzki Instytut Anglistyki, Helsingin Yliopisto, Euneos Oy, University of Jyväskylä, The Open University</td>
<td>BE, NL, BE, DE, FR, IT, PL, FI, F, GB</td>
<td>coördinator partners</td>
<td>€397.206</td>
<td>€61.715</td>
</tr>
<tr>
<td>Titel project</td>
<td>Omschrijving</td>
<td>Partners</td>
<td>Land</td>
<td>Rol</td>
<td>Subsidie totaal €</td>
<td>Subsidie CELSTEC €</td>
</tr>
<tr>
<td>---------------</td>
<td>--------------</td>
<td>----------</td>
<td>------</td>
<td>-----</td>
<td>-------------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>ELENA LLP KA2</td>
<td>Digitaal onderwijsmateriaal ontwikkelen met betrekking tot onderwijs in de Engelse taal in het basisonderwijs alsmede een leerplan ontwikkelen als ook een concept leveren voor de verdere ontwikkeling van de leerkrachten.</td>
<td>BOOR Talenacademie Nederland Open Universiteit / CELSTEC Centre d'Approches Vivantes des Langues et des Médias Katholische Fachhochschule Limburg Landesinstitut für Pädagogik und Medien Klasse TV Provinciale Hogeschool Limburg</td>
<td>NL</td>
<td>NL coördinator partners</td>
<td>400.000</td>
<td>43.000</td>
</tr>
<tr>
<td>1-11-2011 / 31-10-2014</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>projectnr.</td>
<td>519191</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Annex 5  Cooperation projects
<table>
<thead>
<tr>
<th>Titel</th>
<th>Aard van de opdracht</th>
<th>Opdrachtgever</th>
<th>Uitgevoerd door</th>
<th>Looptijd</th>
<th>Omvang CELSTEC inzet 2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Externe audits kwaliteitszorg (Raamovereenkomst)</td>
<td>Deze overeenkomst heeft betrekking op de organisatie van externe audits bij twee Limburgse ROC's: de Leeuwenborgh Opleidingen en het Arcus College. Doel van de externe audits is het op regelmatige tijdpipen nagaan van de feitelijke kwaliteit van het onderwijs, het leerproces en de begeleiding bij opleidingseenheden van de instellingen. Deze benadering past bij de wens van de beide instellingen om de PDCA cyclus gestalte te geven op de werkvlak. Een en ander betekent dat de audits uitgevoerd worden op het niveau van opleidingseenheden.</td>
<td>ROC Leeuwenborgh en ROC Arcus College</td>
<td>Dr. J. Boon en drs. L. Wagemans</td>
<td>1-9-2007 / 1-9-2012</td>
<td>2 dagen</td>
</tr>
<tr>
<td>'Werk maken van professionalisering' (HPBO) (Samenwerkingsovereenkomst)</td>
<td>Koning Willem I College wil het rendement van de professionalisering van haar medewerkers op de prestaties van leerlingen verhogen. Om dit te realiseren, worden acht formele leerlingen, een doorlopend leerlijn, bedrijfssages en een management development traject ontwikkeld. Activiteiten die allemaal gekoppeld worden aan een in te voeren gedifferentieerd beloningsbeleid. Overige partners: Brabant Zeeuwse Werkgeversvereniging, Tilburg; KPC-Groep, Den Bosch; Fontys Hogescholen, Eindhoven; Van Maerlant College, Den Bosch</td>
<td>Koning Willem I College</td>
<td>Koning Willem I College</td>
<td>Prof. dr. E. Boshuizen, dr. C. Corbalan, dr. M. De Volder, dr. O. Firsova en dr. G. Moerkerke</td>
<td>5-2009 / 11-2011</td>
</tr>
<tr>
<td>IJkingsonderzoek</td>
<td>Ten behoeve van het IJkingsonderzoek HPBO zullen een aantal activiteiten worden verricht voor de leerling Competentie Gericht Onderwijs (CGO) en Leids Didactisch Model (LDM). Bij 'Omvang en kosten van de opdracht' is een detailering van deze activiteiten opgenomen.</td>
<td>IJkingsonderzoek</td>
<td>IJkingsonderzoek</td>
<td>Koning Willem I College</td>
<td>Dr. O. Firsova</td>
</tr>
<tr>
<td>Lezing 'De werking van het puberbrein'</td>
<td>Presentatie voor algemeen publiek over de ontwikkeling van het adolescnetenbrein</td>
<td>Lezing 'De werking van het puberbrein'</td>
<td>Lezing 'De werking van het puberbrein'</td>
<td>Openbare bibliotheek Nuth</td>
<td>Dr. R. de Groot</td>
</tr>
<tr>
<td>Presentation 'Improve approaches to train SHE principles, strategies and rules'</td>
<td>Presentatie tijdens de Safety Health &amp; Environment Congres (SHE) Conference 2011 van DSM Resins.</td>
<td>Presentation 'Improve approaches to train SHE principles, strategies and rules'</td>
<td>Presentation 'Improve approaches to train SHE principles, strategies and rules'</td>
<td>DSM Resins</td>
<td>Dr. A.W.M. Hoogveld</td>
</tr>
<tr>
<td>Titel</td>
<td>Aard van de opdracht</td>
<td>Opdrachtgever</td>
<td>Uitgevoerd door</td>
<td>Looptijd</td>
<td>Omvang</td>
</tr>
<tr>
<td>-------</td>
<td>----------------------</td>
<td>---------------</td>
<td>----------------</td>
<td>---------</td>
<td>--------</td>
</tr>
<tr>
<td>Begeleiding scriptiestudenten</td>
<td>De opdracht zal bestaan uit de begeleiding van een 30-tal studenten bij de Master scriptie. Het geven van introductiecolleges met betrekking tot wetenschappelijk schrijven c.q. het schrijven van een scriptievoorstel. Formuleren van een advies over de rol van e-learning in het proces van scriptiebegeleiding. Voertalen zijn Frans en Engels. Uitvoering van de opdracht: Universiteit van Mauritius te Mauritius</td>
<td>Maastricht University - School of Business and Economics</td>
<td>Dr. J. Boon</td>
<td>31-1-2011 / 11-2-2011</td>
<td>8 dagen</td>
</tr>
<tr>
<td>Usability Audit</td>
<td>The usability audit includes: - General analysis of the usability and appropriateness of the app/website based on available screen design - Report (bullet style) including screenshots of the issues - 1 to 2 hour (Skype) presentation/discussion</td>
<td>Humance AG</td>
<td>J. Storm</td>
<td>20-1-2011 / 5-2-2011</td>
<td>1 dag</td>
</tr>
<tr>
<td>Gastcollege 'Can we “afford” CSCL?'</td>
<td>Het verzorgen van een gastcollege met als titel 'Can we “afford” CSCL?</td>
<td>STOAS Hogeschool</td>
<td>Prof. dr. P.A. Kirschner</td>
<td>4-3-2011</td>
<td>0,5 dag</td>
</tr>
<tr>
<td>Gastcollege 'Het Puberbrein'</td>
<td>Het verzorgen van een gastcollege 'Het Puberbrein' aan voltijdstudenten HJO.</td>
<td>Hogeschool Zuyd/faculteit HJO</td>
<td>Dr. R. de Groot</td>
<td>28-3-2011</td>
<td>¾ dag</td>
</tr>
<tr>
<td>Gastcollege 'Broodje Aap'</td>
<td>Het verzorgen van een gastcollege met als titel 'Broodje Aap' tijdens de Onderwijsdag EWI 2011</td>
<td>TU Delft, Faculteit Elektrotechniek, Wiskunde en Informatica</td>
<td>Prof. dr. P.A. Kirschner</td>
<td>30-3-2011</td>
<td>1 dag</td>
</tr>
<tr>
<td>Workshop Mobile Applications Development Technologies</td>
<td>Presentation 'HTML5 for Mobile Applications for Learning ' held at the Bluteam-Workshop, Blutea/Stepco-group.</td>
<td>BlueTea</td>
<td>C. Glahn</td>
<td>21-2-2011</td>
<td>1 dag</td>
</tr>
<tr>
<td>Lezing 'Werking van het puberbrein'</td>
<td>Het verzorgen van een lezing met als titel 'De werking van het puberbrein'</td>
<td>Bernardinus College</td>
<td>Dr. R. de Groot</td>
<td>5-4-2011</td>
<td>2 uur</td>
</tr>
<tr>
<td>Workshop en keynote tijdens ELOS netwerkvergadering</td>
<td>Workshop tijdens de ELOS netwerkvergadering: Op 17-3 vindt in Utrecht de periodieke netwerkvergadering plaats van het ELOS netwerk. Deze bijeenkomst staat in het teken van het vertalen van de ideeën over informeel leren, begeleiden en formatief assessment naar de praktijk van de ELOS scholen. Dr. W. Kicken zal hier m.m. ook aandacht besteden aan het begeleidingsmodel en zal de samenhang tussen opdrachten, informeel leren, competentie-ontwikkeling, begeleiding en ontwikkelingsportfolio duidelijk maken. Hierbij zal ingegaan worden op praktische stappen die genomen zullen moeten worden door de deelnemers om een dergelijke vertaalslag van theorie naar praktijk te starten. Keynote 'Effectief gebruik van een ontwikkelingsportfolio' en workshop 'E-portfolio Ontwikkeling' tijdens de ELOS netwerk conferentie: Op 15/16-4 vindt de ELOS netwerk conferentie plaats in Den Bosch. Tijdens deze conferentie opent dr. W. Kicken de conferentie d.m.v. het geven van een keynote over de inzet van een ontwikkelings-portfolio. Vervolgens zal zij samen met Dr. J. Janssen een workshop geven op zowel 15 als 16 april over de basale stappen die genomen moeten worden voor de ontwikkeling van een ELOS ontwikkelingsportfolio.</td>
<td>Europees Platform (Elos Netwerk)</td>
<td>Dr. J. Janssen en dr. W. Kicken</td>
<td>17-3-2011 / 6-4-2011</td>
<td>3,5 dagen</td>
</tr>
<tr>
<td>Titel</td>
<td>Aard van de opdracht</td>
<td>Opdrachtgever</td>
<td>Uitgevoerd door</td>
<td>Looptijd</td>
<td>Omvang CELSTEC inzet 2011</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>Professionalisering in toepassing van de 4C-ID methodologie</td>
<td>ROC ID College werkt aan een herziening van het curriculum van 26 opleidingen: het FLEX-ID project. Daarbij zal gebruik gemaakt zal worden van de 4C-ID methodiek. Bij dit proces, onder leiding van de Onderwijsmanagers van de opleidingen en de Dienst Onderwijs en Innovatie van het ID-College zullen een aantal ervaren docenten worden opgeleid tot curriculumconstructeur. Andere docenten worden betrokken bij het ontwerpen van leertaken met behulp van de 4C-ID methodologie. CELSTEC is gevraagd om bij deze innovatie als partner te fungeren en daarbij het curriculumontwerpteam en het docententeam te professionaliseren in toepassing van de 4C-ID methodologie.</td>
<td>ROC ID College Zoetermeer</td>
<td>Dr. A.W.M. Hoogveld en dr. W. Kicken</td>
<td>1-5-2011 / 31-12-2011</td>
<td>28 dagen</td>
</tr>
<tr>
<td>Masterclass It's about pedagogy, stupid!</td>
<td>Het verzorgen van een Masterclass It's about pedagogy, stupid! Bij de invoering van ICT in het onderwijs moet meer aandacht besteed worden aan digitale didactiek.</td>
<td>Stichting Consortium Beroepsonderwijs</td>
<td>Drs. W. Rubens</td>
<td>1-4-2011</td>
<td>1 dag</td>
</tr>
<tr>
<td>Presentatie 'Sociale media als persoonlijke leeromgeving' tijdens Studium Generale 'Sociale media en leren'</td>
<td>Het verzorgen van een presentatie 'Sociale media als persoonlijke leeromgeving' tijdens Studium Generale STOAS Hogeschool, Den Bosch.</td>
<td>STOAS Hogeschool</td>
<td>Drs. W. Rubens</td>
<td>12-4-2011</td>
<td>0,5 dag</td>
</tr>
<tr>
<td>Presentatie 'Laptops in het onderwijs. En nu de didactiek'</td>
<td>Presentatie 'Laptops in het onderwijs. En nu de didactiek' tijdens studiedag ROC Nijmegen, Nijmegen. Hoe kun je laptops op een didactisch goede manier in het onderwijs inzetten?</td>
<td>ROC Nijmegen</td>
<td>Drs. W. Rubens</td>
<td>21-4-2011</td>
<td>1 dag</td>
</tr>
<tr>
<td>Ontwikkeling examenproject met EMERGO: Deelproject 1 (Grafische User Interface)</td>
<td>Met de invoering van competentietoepassing onderwijs in het Middelaar Beroepsonderwijs (MBO) weerklinkt de roep om nieuwe vormen van examinering. Klassieke vormen van beoordeling en toetsing worden steeds meer vervangen door zogenaamde competentie assessment programma's (CAP), waarbij slechts klassieke criteria zoals validiteit, objectiviteit en representativiteit niet langer volstaan. Parallel aan de invoering van het competentietoepassing onderwijs is er ook een flinke discussie gaande over de kwaliteit van dit onderwijs en examinering, welke beiden door de verschillende betrokkenen als problematisch worden gezien.</td>
<td>Stichting Praktijkleren</td>
<td>Drs. H. van den Brink, dr. H. Hummel, A. Slootmaker en J. Storm (en externen)</td>
<td>1-4-2011 / 31-7-2011</td>
<td>20,5 dagen</td>
</tr>
<tr>
<td>Titel</td>
<td>Aard van de opdracht</td>
<td>Opdrachtgever</td>
<td>Uitgevoerd door</td>
<td>Looptijd</td>
<td>Omvang</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------------------------------------</td>
<td>--------------------------</td>
<td>------------</td>
</tr>
<tr>
<td>Ontwikkeling examenproject met EMERGO: Deelprojecten 2 (Digitaal Examenproject) en 3 (Toetsen en beoordelen)</td>
<td>Met de invoering van competentietiegericht onderwijs in het Middelaar Beroepsonderwijs (MBO) weerklankt de roep om nieuwe vormen van examinering. Klassieke vormen van beoordeling en toetsing worden steeds meer vervangen door zogenaamde competentie assessment programma's (CAP), waarbij slechts klassieke criteria zoals validiteit, objectiviteit en representativiteit niet langer volstaan. Parallel aan de invoering van het competentietiegericht onderwijs is er ook een flinke discussie gaande over de kwaliteit van dit onderwijs en examinering, welke beiden door de verschillende betrokkenen als problematisch worden gezien.</td>
<td>Stichting Praktijkleren</td>
<td>Drs. H. van den Brink, dr. H. Hummel, dr. D. Joosten-ten Brinke, en A. Slootmaker (en externen)</td>
<td>1-4-2011 / 1-2-2012</td>
<td>52 dagen</td>
</tr>
<tr>
<td>Presentatie 'Digitale didactiek. Hoe je met ICT leren kunt versterken'</td>
<td>Het verzorgen van een presentatie met als titel 'Digitale didactiek. Hoe je met ICT leren kunt versterken' tijdens studiedag.</td>
<td>ROC Da Vinci College</td>
<td>Drs. W. Rubens</td>
<td>18-5-2011</td>
<td>1 dag</td>
</tr>
<tr>
<td>Adviesgesprek</td>
<td>Adviesgesprek met betrekking tot ontwerp toetsbeleidsplan</td>
<td>Grotiuscollege Heerlen</td>
<td>Dr. D. Joosten-ten Brinke</td>
<td>12-4-2011</td>
<td>0,1 dag</td>
</tr>
<tr>
<td>Technisch beheer en onderhoud Biebkracht 1.0</td>
<td>Uitvoeren van technisch beheer en onderhoud van Biebkracht 1.0 incl. ‘zandbakversie’</td>
<td>Bibloservice Gelderland</td>
<td>Dr. M. Bitter-Rijpkema en drs. W. Didderen</td>
<td>1-3-2011 / 31-7-2011</td>
<td>2 dagen</td>
</tr>
<tr>
<td>Presentation 'Contemporary Assessment and RPL’</td>
<td>Het verzorgen van een presentatie 'Contemporary Assessment and RPL' tijdens de South African Banking sector te Venlo</td>
<td>Picompany South Africa Pty Ltd</td>
<td>Dr. D. Joosten-ten Brinke</td>
<td>4-7-2011</td>
<td>0,3 dag</td>
</tr>
<tr>
<td>Titel</td>
<td>Aard van de opdracht</td>
<td>Opdrachtgever</td>
<td>Uitgevoerd door</td>
<td>Looptijd</td>
<td>Omvang CELSTEC inzet 2011</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------------</td>
<td>----------------------------------</td>
<td>---------------------------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>Analyse en rapportage Biebkracht 1.0</td>
<td>Het betreft een analyse en rapportage van de “state of the art” van Biebkracht zoals dit tot nu toe is ontwikkeld met achterliggende kennis en leer principes. De werkzaamheden zullen met name bestaan uit: – (verdere) globale analyse van Biebkracht functionaliteit met speciale aandacht voor de functie van kennisprofielen en de moderator rol – samenstellen van twee notities/rapportages zoals genoemd onder ‘Doel van de opdracht’ op basis van reeds eerder samengestelde documenten, gespreksnotities, literatuuronderzoek e.d. Aard en omvang van de werkzaamheden passen in de afspraken die gemaakt zijn binnen de subsidieafspraken van BSG met de provincie Gelderland ten behoeve van de Biebkracht expertmeeting 2011 en binnen de afspraken die gelden onder de samenwerkingsovereenkomst (2010) in de Biebkracht alliantie</td>
<td>Biblioservice Gelderland / Project Expertmeeting Biebkracht (2010-019516)</td>
<td>Dr. M. Bitter-Rijpkema, drs. C. Pannekeet en drs. S. Verjans</td>
<td>26-4-2011 / 31-12-2011</td>
<td>7 dagen</td>
</tr>
<tr>
<td>Visitatie opleiding Fysiotherapie - Hogeschool Zuyd Heerlen</td>
<td>Panel lid NQA</td>
<td>Dr. D. Joosten-ten Brinke</td>
<td>17-5-2011 / 18-5-2011</td>
<td>3,5 dagen</td>
<td></td>
</tr>
<tr>
<td>Presentatie ‘Digital leermateriaal + Hoe je met ICT leren verder kunt versterken’</td>
<td>Het verzorgen van een presentatie ‘Digital leermateriaal + Hoe je met ICT leren verder kunt versterken’ tijdens studiedag</td>
<td>Dominicus College Nijmegen</td>
<td>Drs. W. Rubens</td>
<td>6-6-2011</td>
<td>1 dag</td>
</tr>
<tr>
<td>Workshop ‘Effectief benutten van een elo’</td>
<td>Het verzorgen van een workshop getiteld ‘Effectief benutten van een elo’ tijdens de CLU-leermiddeldagen.</td>
<td>CLU Expertisecentrum Leermiddelenontwikkeling – Universiteit Utrecht</td>
<td>Drs. J. van der Baaren</td>
<td>17-11-2011</td>
<td>0,5 dag</td>
</tr>
<tr>
<td>Titel</td>
<td>Aard van de opdracht</td>
<td>Oprachtgever</td>
<td>Uitgevoerd door</td>
<td>Looptijd</td>
<td>Omvang CELSTEC inzet 2011</td>
</tr>
<tr>
<td>-------</td>
<td>----------------------</td>
<td>--------------</td>
<td>-----------------</td>
<td>----------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>Presentatie 'Visies op leren en e-learning'</td>
<td>Het verzorgen van een presentatie 'Visies op leren en e-learning' tijdens de professionaliseringsbijeenkomst van de Werkplaats E-learning van de Vereniging Gehandicaptenzorg, Utrecht, Nederland</td>
<td>Vereniging Gehandicaptenzorg Nederland</td>
<td>Drs. W. Rubens</td>
<td>6-9-2011</td>
<td>0,8 dag</td>
</tr>
<tr>
<td>Dienstverlening voorbereiding Library School</td>
<td>Deze opdracht omvat de werkzaamheden en activiteiten met betrekking tot het in co-creatie met de Library School i.o. en in samenwerking andere stakeholders (1) definitief inrichten van het onderwijsprogramma incl. organisatiemodel en (2) het configureren, inrichten en vullen van het LS on-line Leernetwerk ('LS Virtuele Campus'). Dit contract omvat de werkzaamheden en activiteiten die in de periode tot 1 september ter hand moeten worden genomen om een adequate dienstverlening van de OU bij start van de LS vanaf september 2011 te kunnen garanderen. Dit in afwachting van de beoogde meerjarige dienstverleningsovereenkomst met de OU ten behoeve van de Library School.</td>
<td>Stg. Library School i.o.</td>
<td>Dr. M. Bitter-Rijpkema, drs. W. Didderen drs. C. Pannekeet, prof. dr. P.B. Sloep en drs. S. Verjans</td>
<td>1-7-2011 / 1-9-2011</td>
<td>12 dagen</td>
</tr>
<tr>
<td>Vraagverheldering en afstemming onderzoeksplan EXMO programma Future in Mobility</td>
<td>Vraagverheldering en afstemming onderzoeksplan EXMO programma Future in Mobility</td>
<td>Stichting Kennisnet</td>
<td>Drs. W. Didderen</td>
<td>29-8-2011 / 31-8-2011</td>
<td>5 dagen</td>
</tr>
<tr>
<td>Twee Workshops omtrent het 4C/ID-model</td>
<td>Twee workshops omtrent het 4C/ID-model Hogeschool Zuyd</td>
<td>Dr. W. Kicken</td>
<td>8-9-2011 en 15-9-2011</td>
<td>1 dag</td>
<td></td>
</tr>
<tr>
<td>Ad hoc advies bij follow up selectieproces</td>
<td>Ad hoc advies bij follow up selectieproces CELLO</td>
<td>Drs. W. Rubens</td>
<td>2-9-2011</td>
<td>0,3 dag</td>
<td></td>
</tr>
<tr>
<td>Lezing ‘Kwaliteit van toetsen en beoordelen’</td>
<td>Het verzorgen van een lezing ‘Kwaliteit van toetsen en beoordelen’ tijdens scholingsdagen Archimedes.</td>
<td>Hogeschool Utrecht</td>
<td>Dr. D. Joosten-ten Brinke</td>
<td>27-9-2011</td>
<td>1 dag</td>
</tr>
<tr>
<td>Lezing ‘Kwaliteit van toetsen en beoordelen’</td>
<td>Het verzorgen van een lezing ‘Kwaliteit van toetsen en beoordelen’ tijdens studiedagen toetsing Hogeschool Rotterdam</td>
<td>Dr. D. Joosten-ten Brinke</td>
<td>25-10-2011</td>
<td>1 dag</td>
<td></td>
</tr>
<tr>
<td>Lezing ‘Hoe kunnen mensen écht goed leren? Zin en onzin over internet en multitasken’</td>
<td>Het verzorgen van een lezing met als titel ‘Hoe kunnen mensen écht goed leren? Zin en onzin over internet en multitasken’ tijdens de relatie/netwerkbijeenkomst.</td>
<td>NTR</td>
<td>Prof. dr. P.A. Kirschner</td>
<td>3-10-2011</td>
<td>1 dag</td>
</tr>
<tr>
<td>Presentatie ‘Blended Learning’</td>
<td>Het verzorgen van een presentatie ‘Blended Learning’ tijdens een studiedag van het Interactive Learning Center</td>
<td>Investablish</td>
<td>Drs. W. Rubens</td>
<td>24-11-2011</td>
<td>1 dag</td>
</tr>
<tr>
<td>Beheer onderhoud Biebracht 1.0</td>
<td>Technisch beheer Biebracht 1.0 in periode september tot en met december 2011</td>
<td>BiblioService Gelderland</td>
<td>Dr. M. Bitter-Rijpkema en drs. W. Didderen</td>
<td>1-10-2011 / 31-12-2011</td>
<td>2 dagen</td>
</tr>
<tr>
<td>Dagvoorzitterschap/Keynote/Workshop tijdens congres ‘E-learning in de zorg’</td>
<td>Het verzorgen van dagvoorzitterschap, het geven van een Keynote ‘E-learning implementeren: 10 geleerde lessen en het geven van een workshop ‘Social media &amp; learning’ tijdens het congres E-learning in de Zorg. Nieuwegein, Nederland</td>
<td>Studiecentrum voor Bedrijf en overheid</td>
<td>Drs. W. Rubens</td>
<td>8-12-2011</td>
<td>1 dag</td>
</tr>
<tr>
<td>Ondersteuning opstellen theoretisch kader</td>
<td>Ondersteuning bij het opstellen van een theoretisch kader over informatievaardigheden voor de bibliotheken. Het Sectorinstituut voor Openbare Bibliotheek (SIOB) coördineert in opdracht van het Ministerie van Onderwijs, Cultuur en wetenschap, alle plannen die erop gericht zijn de bibliothekensector te vernieuwen en te versterken.</td>
<td>SIOB</td>
<td>Prof. dr. S. Brand-Gruwel</td>
<td>20-10-2011</td>
<td>1 dag</td>
</tr>
<tr>
<td>Titel</td>
<td>Aard van de opdracht</td>
<td>Opdrachtgever</td>
<td>Uitgevoerd door</td>
<td>Looptijd</td>
<td>Omvang CELSTEC inzet 2011</td>
</tr>
<tr>
<td>-------------------------------------------</td>
<td>-------------------------------------------------------------------------------------</td>
<td>----------------</td>
<td>-----------------</td>
<td>-----------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>Presentatie Wat maakt onderwijs met ICT leuk en effectief?</td>
<td>Het verzorgen van een presentatie 'Wat maakt onderwijs met ICT leuk en effectief?' tijdens een masterclass van de SURF Academy, Utrecht, Nederland.</td>
<td>SURFFoundation</td>
<td>Drs. W. Rubens</td>
<td>11-10-2011</td>
<td>1 dag</td>
</tr>
<tr>
<td>Gastcollege E-learning trends</td>
<td>Het verzorgen van een presentatie 'E-learning trends' tijdens een gastcollege van de post-HBO opleiding E-learning van Fontys Hogescholen, Utrecht, Nederland.</td>
<td>Fontys Hogeschool - ICT</td>
<td>Drs. W. Rubens</td>
<td>22-11-2011</td>
<td>1 dag</td>
</tr>
<tr>
<td>Brainstormgroep met betrekking tot expertsessie</td>
<td>Het verzorgen van een inleiding en het leiden van een brainstormgroep betreffende een expertsessie over het model rondom 'techniek, analyse, communicatie en strategie' uit Meten van Mediawijsheid. Tijdens deze middag wordt samen met een aantal experts uit het netwerk van Mediawijzer.net een stappenplan uitgestippeld om dit model in 2012 verder te ontwikkelen. Tijdens de sessie worden twee invalshoeken gehanteerd: die van de wetenschap en van de praktijk.</td>
<td>Mediawijzer.net</td>
<td>Prof. dr. S. Brand-Gruwel</td>
<td>29-11-2011 en 15-12-2011</td>
<td>2 dagen</td>
</tr>
<tr>
<td>Professionaliseringstraject</td>
<td>De dienstverlening betreft de professionalisering van het ontwerpteam en docenten van de professionele bacheloropleiding Sociaal Agogisch Werk van de XIOS Hogeschool, te Hasselt, België. Het professionaliseringstraject bestaat uit: 1) een training van twee aaneengesloten blokken van anderhalve dag van het ontwerpteam in het toepassen van de methodiek van het 4C-ID ontwerpmodel met naast gegeven voorbeelden het eigen ontwerp als oefencasus. Deze training wordt gevolgd door 6 bijeenkomsten met het ontwerpteam waarin feedback besproken wordt op correcte toepassing van de 4C-ID methodiek op dit eigen ontwerp. 2) een halfdaagse workshop voor alle docenten met een introductie van de achtergronden van het model. Dit is een vereenvoudigde versie van gedeeltes uit de training onder 1.</td>
<td>XIOS Hogeschool Limburg</td>
<td>Dr. A.W.M. Hoogveld</td>
<td>23-11-2011 / 31-12-2011</td>
<td>5,5 dagen</td>
</tr>
<tr>
<td>Titel</td>
<td>Aard van de opdracht</td>
<td>Opdrachtgever</td>
<td>Uitgevoerd door</td>
<td>Looptijd</td>
<td>Omvang CELSTEC inzet 2011</td>
</tr>
<tr>
<td>-------</td>
<td>---------------------</td>
<td>---------------</td>
<td>----------------</td>
<td>----------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>Ondersteuning projectteams in het project LevenLangLeren@HsZuyd i.h.k.v. de Stimuleringsregeling LLL in het HBO</td>
<td>CELSTEC is gevraagd om voor een tweetal domeinen expertise beschikbaar te stellen ter ondersteuning van de projectteams in het project LevenLangLeren@HsZuyd, te weten: a. Het certificeren van EVC assessoren van HsZuyd b. Ondersteuning bij Blended Learning Presentatie 'Blended learning: waarom, wat en hoe' tijdens internal seminar van de Hogeschool Zuyd.</td>
<td>Hogeschool Zuyd</td>
<td>Drs. W. Didderen, drs. D. Ebrecht, dr. O. Firsova, dr. A.W.M. Hoogveld, dr. D. Joosten-ten Brinke, dr. M. van der Klink, dr. G. Moerkerkeem drs. S. Verjans</td>
<td>1-10-2010 / 31-12-2011</td>
<td>31 dagen</td>
</tr>
</tbody>
</table>