

Medizinische Universität Graz



The blended learning concept of the Medical University of Graz and its technical realization

Herwig Rehatschek, ICL Conference, 16 September 2010

Agenda



- Who are we? Facts & Figures
- Introduction
- >> Technical realization of virtual lessons
- >> Conclusions & Outlook

Facts & Figures Medical University of Graz



- >> founded as faculty in 1863
- autonomous Medical University of Graz since 2004
- ▶ Approx. 5,300 students
- → 350 annual graduates
- ▶ Approx. 1,500 employees
- 23 university clinics and institutes,3 research centers
- >> 3 diploma, 3 postgraduate, 1 undergraduate studies
- ▶ 16 university training courses

Introduction



- In 2002 a new modular based curriculum for human medicine was introduced
- In parallel the Virtual Medical Campus (VMC) was launched as the portal to the eLearning content
- VMC Graz
 - offers 2 learning platforms
 - hosts material for 3 studies
 - provides access to central curriculum administration and organization system

Statistics of the VMC Graz Join2Learn platform



- ▶ 10,630 unique learning objects
- ▶ 571 active authors
- >> 50,000 accesses / month on learning objects
- >> 15,000 accesses / month on virtual (mandatory) courses
- ▶ 950 new learning objects within study year 2009/10
- >> 16,000 web based trainings / MC questions

Modular curriculum human medicine



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In each track are approx. 50 students

Time slots – block of five weeks where one module runs

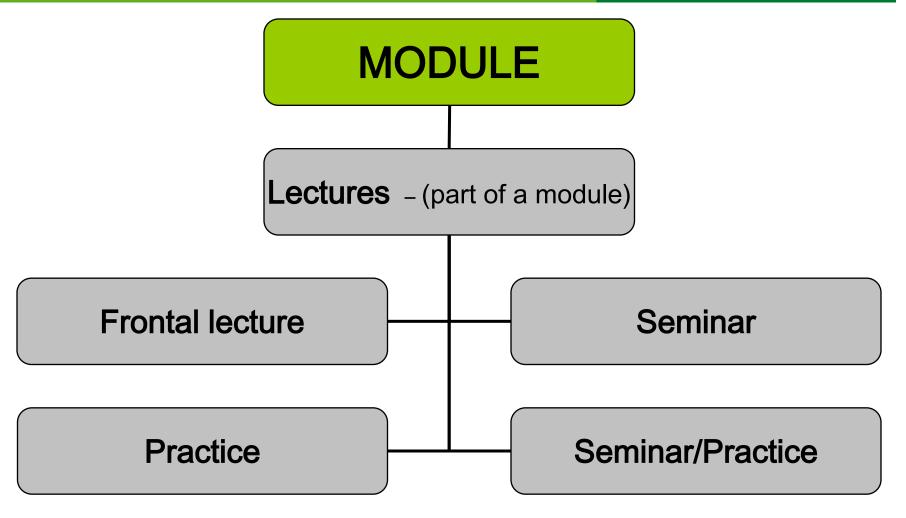
				_		
	Winter semester			Summer semester		
	time slot 1	time slot 2	time slot 3	time slot 4	time slot 5	time slot 6
1. Track	M19	M20	M21	M22	M23	SSM
2. Track	M20	NBI4a+4b M21	M22	M23	SSM	M19
Z. Hack	1404	NBI4a+4b	100		JOIVI	14113
3. Track	IVIZI	NBI4a+4b	<u>M23</u>	SSM	M19	M20
4. Track	M22	M23	SSM	M19	M20	M21
				NBI4a+4b		
5. Track	M23	SSM	M19	M20	M21	M22
				NBI4a+4b		
6. Track	SSM	M19	M20	M21	M22	M23
				NBI4a+4b		

Track – students visit modules from one track

Accompanying
Lectures –
lectures offered
for one semester
parallel to
modules with no
overlap

Content of modules





Technical realization



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Accompanying Material

- lessons are held normally with teachers and within teaching rooms
- eLearning material is offered via the eLearning platform

Virtual Lectures

- lessons are fully virtual seminars, practices
- students have to make them via the learning platform
- Web based trainings (WBT) have to be executed by students in order to pass these lectures

Workflow for virtual lectures



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synchronisation of virtual courses with MEDonline

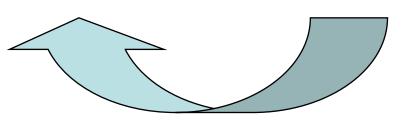
MEDonline

lecture administration curricula administration of exams results of exams

Join2Learn

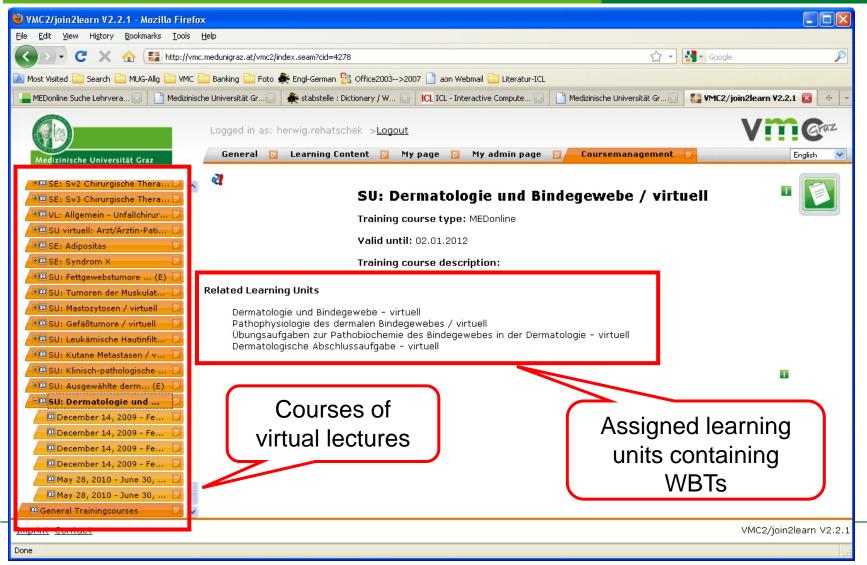
Content for the lectures WBT exams

automatic transfer of WBT results at the end of lectures



Join2Learn course management

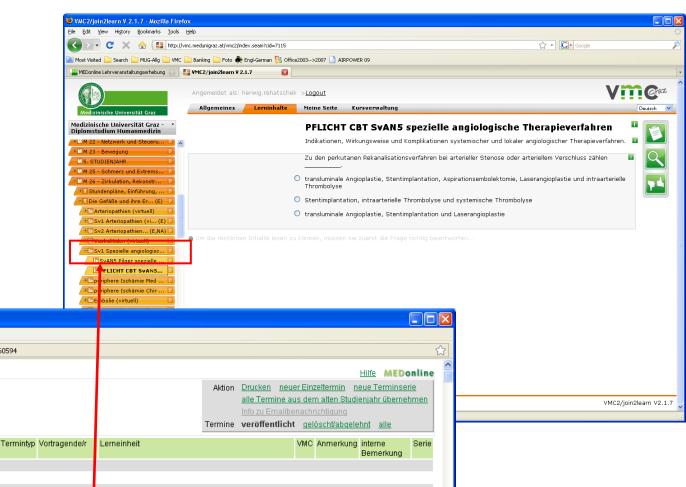




Connection MEDonline and

Join2Learn

Join2Learn



online.meduni-graz.at

Se: NBI-5 (Plen): Chirurgie - Technische

Sv1 Spezielle angiologische Therapieverfahren VMC

Kreislaufunterstützungssystemen

Cv2 Arterionathien (virtuall)

bei Arteriopathien (virtuell) Sv2 Track NBI Unterstützungspumpen,

Elektrostimulation des Herzens

Grundlagen von

MEDonline

Termine

Lehrveranstaltung

🐸 MEDonline Termine - Mozilla Firefox

Datum von

Gruppe 1_3_09S_10. Semester_202

☐ Mo 2.3.2009 9:00 - 9:45 HS E1

Mo. 2.3.2009.21:00. 23:15 virtual

Di 3.3.2009 20:15 - 21:00 virtuell

3.3.2009 21:00 - 22:30 virtuell

javascript:GLOBALwindow('tvinit.explainTerminNotification', 'EMAIL_NOTIF_INFO', 'YES',2);

File Edit View History Bookmarks Tools Help

https://online.meduni-graz.at/mug_online/te_ortzeit.liste?corg=16006&clvnr=160594

Teilbeurt. Ereignis

Abhaltung

CBT-Abhaltung

Rehak P

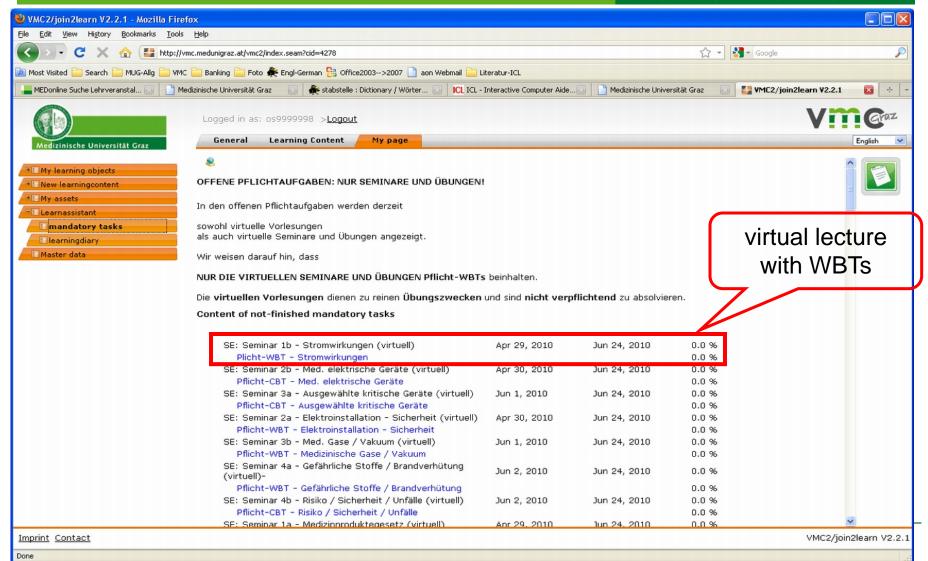
Pilaer E

Rehak P

0000.263 09S 2.2sws SE Zirkulation, Rekonstruktion und Ersatz

Student view virtual lectures





Conclusions



- The blended learning concept of MUG consists of
 - virtual accompanying material
 - (mandatory) virtual lectures
- Virtual lectures are technically fully automated
 - registration of students
 - generation of the tasks for the students
 - automatic transmission of results
 - generation of grades
- >> Teachers can spend their time on
 - updating and creating new material
 - answering students questions

Outlook



- ▶ Moodle Pilot phase in SS 2010
 - 460 students
 - evaluation was very positive
- With WS 2010/11 we will introduce Moodle
 - second learning platform
 - guarantee performance for 5300 students
- >> Currently MEDonline interface to Moodle is developed
 - virtual lectures can be executed also in Moodle

Contact information



Medizinische Universität Graz

Dr. Herwig Rehatschek

- Head of section "organization of teaching"
- Head of department VMC
- Voice: +43 (0) 316 / 380 4020
- Fax: +43 (0) 316 / 380 9602herwig.rehatschek@medunigraz.at
- Universitätsplatz 3/EG, 8010 Graz, AUSTRIA
- WWW: http://vmc.medunigraz.at

