Universität zu Köln

Department für Chemie

Universität zu Köln

Master Welcome

Monday, 01.04.2019

Welcome at the Department of Chemistry
Summer-Term 2019
Class 17/8

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Who is responsible for the organisation?

Prof. Dr. Axel
Griesbeck
(Organic Chemistry)
Chairman M.Sc.
Examination Board

Prof. Dr. Mathias
Wickleder
(Inorganic Chemistry)
Vice-Chairman M.Sc.
Examination Board

Dr. Heike
Henneken
(Physics)
Study Coordinator, Student Advisory Service
Examination Office

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Program Language = English only!

But:

It is always good to learn some German
for ordering beer,
Talking to administrative people …

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▪Bild: https://www.tolkiengesellschaft.de/16048/elbisch-und-andere-erfundene-sprachen-seminar-in-wien/

Train your English!

active:

writing (reports…)
written exams

speaking (presentations…)
oral exams

passive:

reading (journals…)

listening (lectures…)

Also not your professors in teaching in English!

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Bild: https://lifehopeandtruth.com/life/christian-living/nobodys-perfect/

Expectations on the Master program

- Bachelor program with some more demand?
- Route to scientific individualization?

Establishing high level education and specialization

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Bild: https://theimpactnews.com/items-we-barely-use/retired-columnists/kiki-facts/2016/11/03/5-rules-for-success//

High level education

3 A-Lecture modules
combined with
3 E-lab course modules

Specialization

2 project modules (P)

1 project module with combined research proposal (P&RP)

1 supplementary module (S)

Master-Thesis (M)

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credits %total grade

1	**MN-C-A1**	**A**DVANCED MODULE 1	**x**	**x**		**6**	**6/120**
2	**MN-C-A2**	**A**DVANCED MODULE 2	**x**	**x**		**6**	**6/120**
3	**MN-C-A3**	**A**DVANCED MODULE 3	**x**	**x**		**6**	**6/120**
4	**MN-C-E1**	**E**XPERIMENTAL MODULE 1			**x**	**9**	**9/120**
5	**MN-C-E2**	**E**XPERIMENTAL MODULE 2			**x**	**9**	**9/120**
6	**MN-C-E3**	**E**XPERIMENTAL MODULE 3			**x**	**9**	**9/120**
7	**MN-C-P1**	**P** MODULE1	**x**	**x**	**x**	**12**	**14/120**
8	**MN-C-P2**	**P** MODULE 2	**x**	**x**	**x**	**12**	**14/120**
9	**MN-C-P-RP**	**P** MODULE & RP	**x**	**x**	**x**	**15**	**17/120**
10	**MN-C-S**	**S** MODULE	**x**	**x**	**x**	**6**	**-**
11	**MN-C-Ma**	**MA**STER MODULE				**30**	**30/120**

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Recommended study plan – 1. Semester

Semester	Module	Lecture + Seminar (hours per week)	Lab course (weeks)	Credits
1	M-A1	4		6
	M-A2	4		6
	M-A3	4		6
	M-E1		8	9
				27

Not possible for the Biochemistry A-module!
BC A&E is not in the 1st semester…

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Recommended study plan – 2. Semester

Semester	Module	Lecture + Seminar (hours per week)	Lab course (weeks)	Credits
2	**M-E2**	4	8	9
	M-E3		8	9
	M-P1	2-4	9-10	12
	M-P2 Starting…	2-4	9-10	12
				30-42

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Recommended study plan – 3./4. Semester

Semester	Module	Type of Module	Lecture + Seminar (hours per week)	Lab course (weeks)	Credits
3	**M-P-RP**	Project Module II	2-4	9-10	15
	M-P-S	Supplementary Module	maybe	maybe	6
					21-33
4	**M-Ma**	Master-Thesis (6 months)		26	30
					30

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Project modules

A: Chemical Project modules

P-AC	Inorganic Chemistry
P-OC	Organic Chemistry
P-PC	Physical Chemistry
P-ThC	Theoretical Chemistry (Quantum Chemistry)
P-BC	Biochemistry (Biological Chemistry)
P-TeC	Technical Chemistry
P-NC	Nuclearchemistry
P-MC	Macromolecular Chemistry

B: Non-chemical Project modules

P-Phy	Physics
P-Cry	Cristallography
P-Min	Mineralogy
P-Gen	Genetics
P-Inf	Computer Sciences
P-Pha	Pharmacology und Toxicology
P-PhC	Physiological Chemistry

You can choose max. one non-chemical project module!

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Project module with research proposal (P-RP)

The research proposal is part of the P-RP module and its successful transcription and defence is documented by the signature of the examiner before the start of the oral exam.

Students who successfully completed this module, are able to …

- prepare a research proposal for a specific scientific problem,
- perform an in-depth critical literature search and document it,
- perform an evaluation of current methods and technologies, a description of possible solutions to the problem together with a literature description and a time schedule for realization of the proposed research.

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The S-module (= Supplementary module)

You have a wide collection of opportunities:

- one full A-Module (lecture, seminar, exam), or
- one A-lecture & and P-lecture with exam (A or P), or
- up to 3 P-module lectures (1-2 SWS), or
- external experimental projects (with exam), or,
- internal experimental projects (with exam),or
- other stuff that is accepted…

MORE DETAILS:
http://www.chemie.uni-koeln.de/docs.html?&L=1

Your mentor becomes very important !!!!!

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Mentor program

Each student is assigned a professor as a mentor. The task of the mentor is, in particular, the individual study-related counseling.

in German

Jedem/r Studierenden wird ein/eine Hochschullehrer/in als Mentor/in zugewiesen. Aufgabe des/der Mentors/in ist insbesondere die individuelle studienbegleitende Beratung.

Die Mentoren aus dem B.Sc. Studium an der Uni Köln werden im Studium M.Sc. beibehalten, können auf Wunsch aber gewechselt werden.

Bitte sprechen Sie bei Bedarf mit dem Prüfungsamt.

Dementoren:

Mentoren:

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Mentor program

6023371	Ruschewitz
7306711	Goldfuß
7309687	Klein
5984475	Lindfors
7307245	Lindfors
7361901	Wickleder
5972337	Neumaier
5824419	Niefind
5961297	Schmidt
5966019	Schmidt
6042058	Schmidt
6053920	Dolg
7307640	Schmalz
5970679	Berkessel
6006019	Goldfuß
5986907	Meerholz
7307397	Ruschewitz
7308934	Giernoth
6050271	Schäfer

Dementoren:

Mentoren:

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Specialisation

This is a possibility but not an obligation

One **Master of Chemistry**

Four Areas of Specialization

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Nanochemistry & Functional Materials

This specialization offers conceptual and experimental advancement in the chemistry of nanomaterials.

Starting from fundamental concepts of nanochemistry you will acquire skills in the preparation, investigation and characterization of nano-structured materials using a broad toolset of synthetic and analytical methods. You will experience the importance of materials in many applications and will learn to assess their potential in energy harvesting and storage, catalysis, (gas)sensing, biomedical applications and many more.

Program Advisors:
Prof. Sanjay Mathur
Prof. Uwe Ruschewitz

Advanced and Experimental Modules:
Inorganic and Physical Chemistry
3 Project modules and Master thesis in this area.

Catalysis & Synthesis

This program gives you access to modern concepts in synthesis and catalysis.

The program will provide you with training in the chemical synthesis of organic molecules with an emphasis on metal-, organo- and photo-catalysis. You will learn about key concepts and how to apply modern synthetic (and analytical) methods for the synthesis of relevant compounds, such as bioactive agents, in an efficient, stereoselective and sustainable manner.

Program Advisors:
Prof. Ralf Giernoth
Prof. Albrecht Berkessel

Advanced and Experimental Modules:
Inorganic and Organic Chemistry
3 Project modules and Master thesis in this area.

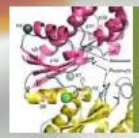
Photonics & Photochemistry

This program gives you an insight to the exciting world of photonics and photochemistry.

You will be trained in the basics of photochemistry and photophysics of p-conjugated (supra-)molecular and plasmonic systems. You will acquire skills in designing structure-property relations and in using light to control chemical reactions. In addition, you will be involved in the preparation of photonic devices such as light-emitting diodes, solar cells, optical sensors and switches. Finally, you will learn how to use (laser-based) spectroscopic techniques for the in-depth characterization of the above systems.

Program Advisors:
Prof. Klaus Meerholz
Prof. Axel Griesbeck

Advanced and Experimental Modules:
Organic and Physical Chemistry
3 Project modules and Master thesis in this area.



Bioorganic & Biological Chemistry

This program gives you access to the exciting world of bioorganics .

Three modules are offered with a focus on biochemistry and bioorganic chemistry that provides students with a background in biochemistry, new insights into cellular enzymology with clinical aspects, structural biochemistry using X-ray crystallography, peptide synthesis and neuro-biochemistry.

Program Advisors:
Prof. Günter Schwarz
Prof. Hans-Günther Schmalz

Advanced and Experimental Modules:
Biochemistry and Organic Chemistry
3 Project modules and Master thesis in this area.

http://www.chemie.uni-koeln.de/

English

Meistbesucht Erste Schritte Aktuelle Nachrichten Links anpassen No Flash plugin trix Access Gateway

University of Cologne

Search for

Deutsch

Faculty of Mathematics and Natural Sciences
Department of Chemistry

Home | News | Occupancy of Lecture Rooms | Department | Research | Studies | Alder/Bayer/Vogel Lectures | Contact

Lectures and Dates

No events found.

Bitte beachten Sie die neuen Klausurregeln und Regelungen zu den Praktikumsprotokollen!

Vorkurs und Orientierungseinheit für Erstsemester Bachelor Chemie

Erstsemesterinformationen Chemie B. Sc., M. Sc. und Lehramt

Aktuell

Aus dem Department

Studium & Lehre

Stellenangebote

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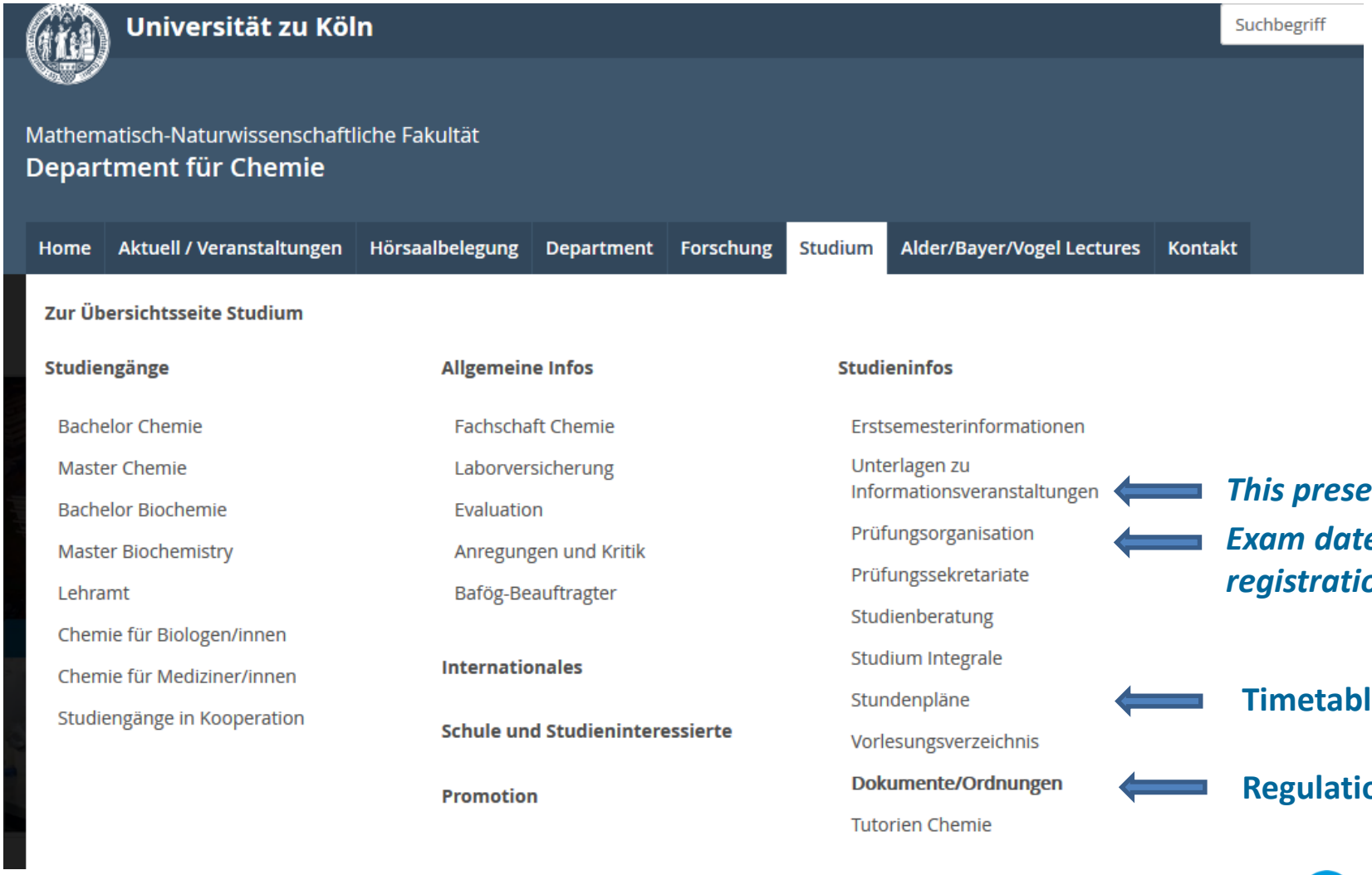

This presentation

Exam dates, registration periods

Timetable

Regulations

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Time Table SS 2019

Time	Monday		Tuesday		Wednesday		Thursday		Friday	
08.00-09.00	A-BC lecture 8.00 - 9.00 a.m. BC- Institut, Zülpicher Str.		A-BC lecture 8.00 - 9.00 a.m. BC- Institut, Zülpicher Str.		A-BC lecture 8.00 - 9.00 a.m. BC- Institut, Zülpicher Str.		A-BC lecture 8.00 - 9.00 a.m. BC- Institut, Zülpicher Str.		A-BC lecture 8.00 - 9.00 a.m. BC- Institut, Zülpicher Str.	
09.00-10.00	E-BC daily all-day	**A**-AC Seminar R 414 AC 9 a.m. - 10.30 a.m. Compulsory kick-off meeting: April 15, 9 a.m.	E-BC daily all-day		E-BC daily all-day		E-BC daily all-day	**A**-TC lecture 9 a.m. -11 a.m. Exp SR 2	E-BC daily all-day	**A**-PC lecture 9 a.m. - 10 a.m. , R 147 PC
10.00-11.00						**A**-TC Seminar 9 a.m. -11 a.m. Exp. SR 2 Compulsory kick-off meeting: April 3, 9 a.m.				**A**-PC Seminar 10 a.m. -11 a.m. R 147 PC Compulsory kick-off meeting: April 5, 9 a.m.
11.00-12.00				**A**-PC lecture 11.a.m. - 1 p.m. R 147 PC		**A**-OC lecture 11 a.m. to 1 p.m. HS III		**A**-AC lecture 11 a.m. to 1 p.m. Exp SR 2		
12.00-13.00										**A**-AC lecture 12 p.m. to 1 p.m. Exp SR 2
13.00-14.00		**E**-PC Monday, Tuesday, Friday 1 p.m. to 5.30 p.m. 8 experiments		**E**-PC Monday, Tuesday, Friday 1 p.m. to 5.30 p.m. 8 experiments						**E**-PC Monday, Tuesday, Friday 1 p.m. to 5.30 p.m. 8 experiments
14.00-15.00										
15.00-16.00										
16.00-17.00						**A**-OC Seminar				
17.00-18.00						4 p.m. - 6.30 p.m. HS III Compulsory kick-off meeting : April 10, 4 p.m., Exp. SR 1				

Module responsibilities SS 2019

Advanced Module	Area	Name	E-Mail	Phone
	AC	Prof. Dr. Mathias Wickleder	mwickled@uni-koeln.de	-3262
	OC	PD Dr. Dirk Blunk	d.blunk@uni-koeln.de	-5213
		Prof. Dr. Bernd Goldfuß	goldfuss@uni-koeln.de	-5729
		Dr. Martin Breugst	mbreugst@uni-koeln.de	-3294
	PC	Prof. Dr. Klas Lindfors	klindfor@uni-koeln.de	-4265
	TC	PD Dr. Michael Hanrath	michael.hanrath@Uni-koeln.de	-6889
Experimental Module	**Area**	**Name**	**E-Mail**	**Phone**
	AC	Prof. Dr. Uwe Ruschewitz	uwe.ruschewitz@uni-koeln.de	-3285
	OC	Dr. Martin Breugst	mbreugst@uni-koeln.de	-3294
	PC	Dr. Hanna Krikcziokat	hanna.krikcziokat@uni-koeln.de	-3942
	TC	PD Dr. Michael Hanrath	michael.hanrath@Uni-koeln.de	-6889

Stand per 26.03.2019, Matter of changes

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Important, obligatory!

Module	Date	Time	Place
IC-A	15.04.2019	9:00- 10:30	AC R. 414
IC-E	12.08.2019	9:00- 10:30	AC R. 414
OC-A	10.04.2019	16:00-18:30	Exp. SR. 1
OC-E	10.04.2019	16:00-18:30	Exp. SR. 1
PC-A	05.04.2019	9:00-11:00	PC 147
PC-E	08.04.2019	13:00-15:00	Exp. SR 2
TC-A	03.04.2019	9:00-11:00	Exp. SR 2
TC-E		Upon request	
26.03.2018, Matter of Changes			

A- Modules:
At the compulsory kick-off meeting, the talk assignment will take place Please note that it will not be possible to obtain a presentation topic after this date.

E-Modules:
There is a compulsory attendance for this meeting and you will not be allowed to continue with this module if you miss this appointment and the safety instructions.

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Important, obligatory!

Enrollment period for all Advanced and Experimental Modules:
in Klips from 1 April to 7 April 2019

Without registration for the module no participation is possible.

To take part in the E-Module you must be registered for the corresponding A-Module.

Choose only the modules you want to study in the actual semester.

De-register, if you changed your mind!
If you can't do this by yourself, please inform the examination office!
Registrations of previous semester are not valid for the next one!
Be fair and don't block places others are waiting for.

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Important, obligatory!

Written and oral exams
You must register online in Klips for the written exams.
Without registration for the exam no participation is possible.
Registration period: latest 7 days prior to the date of the exam.
This is valid for all types of exams.

If you don‘t show up, without a medical certificate, the exam will be counted as not passed. One of your three trials to pass the exam will be gone.

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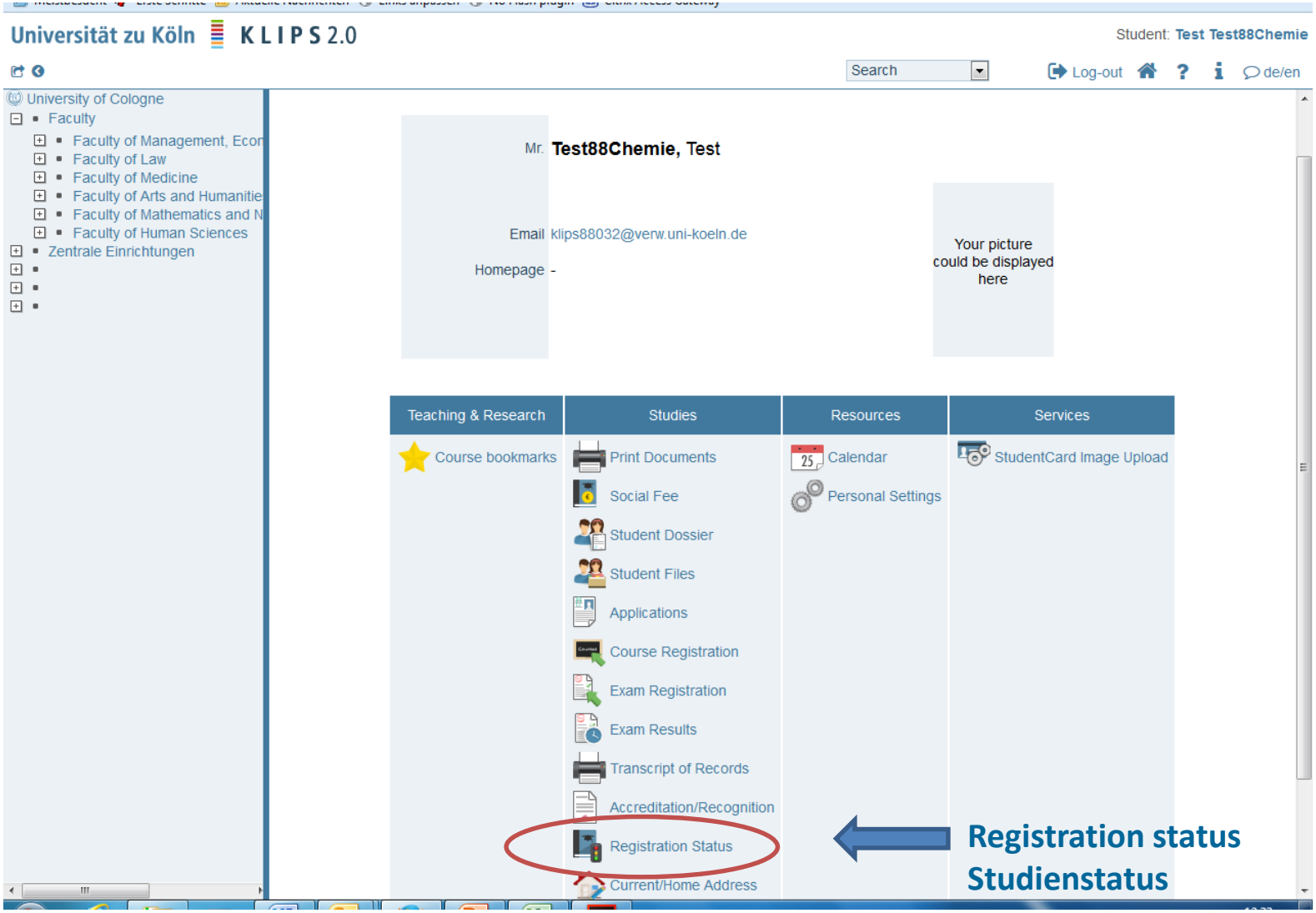
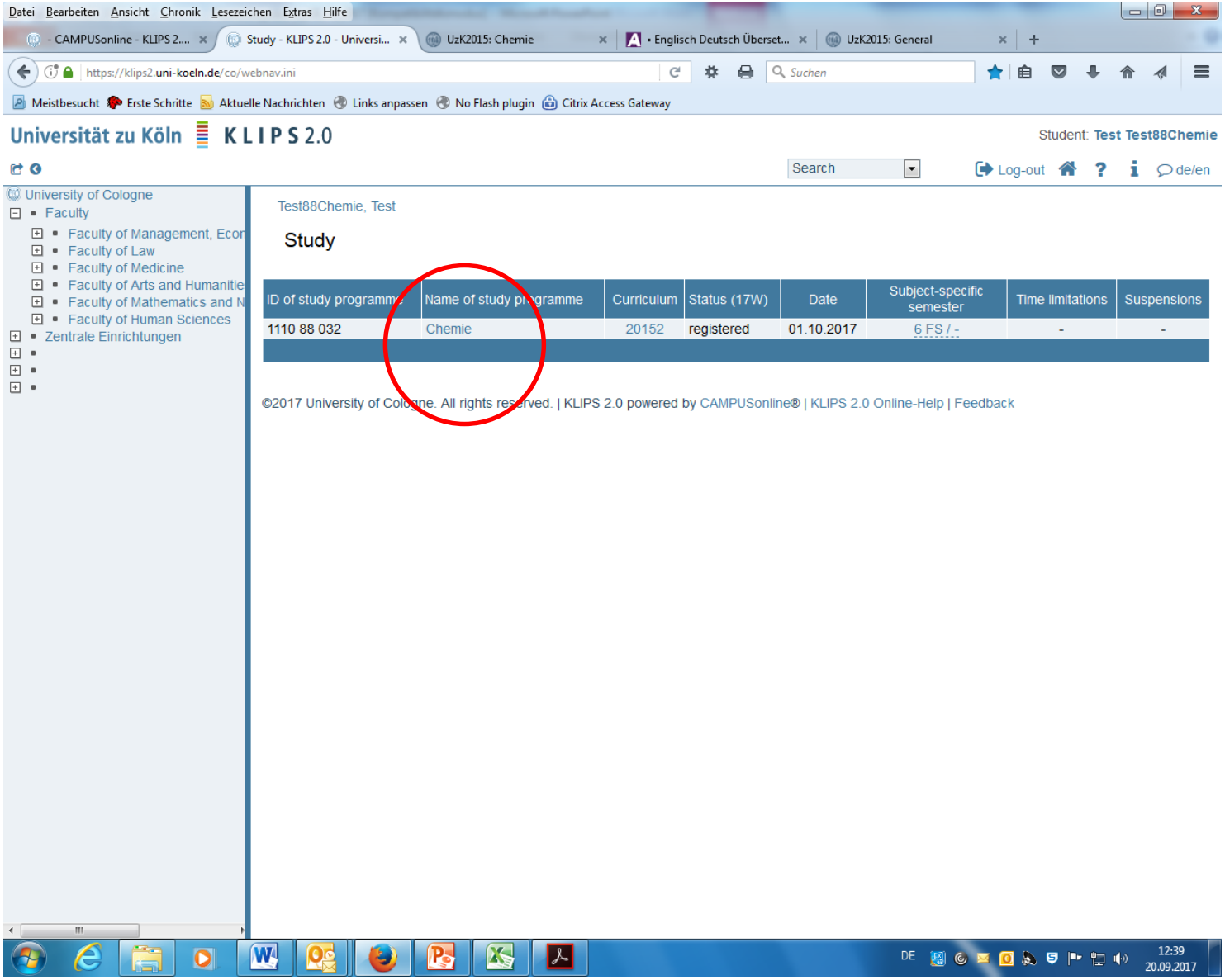
Online registration for modules- Klips 2.0





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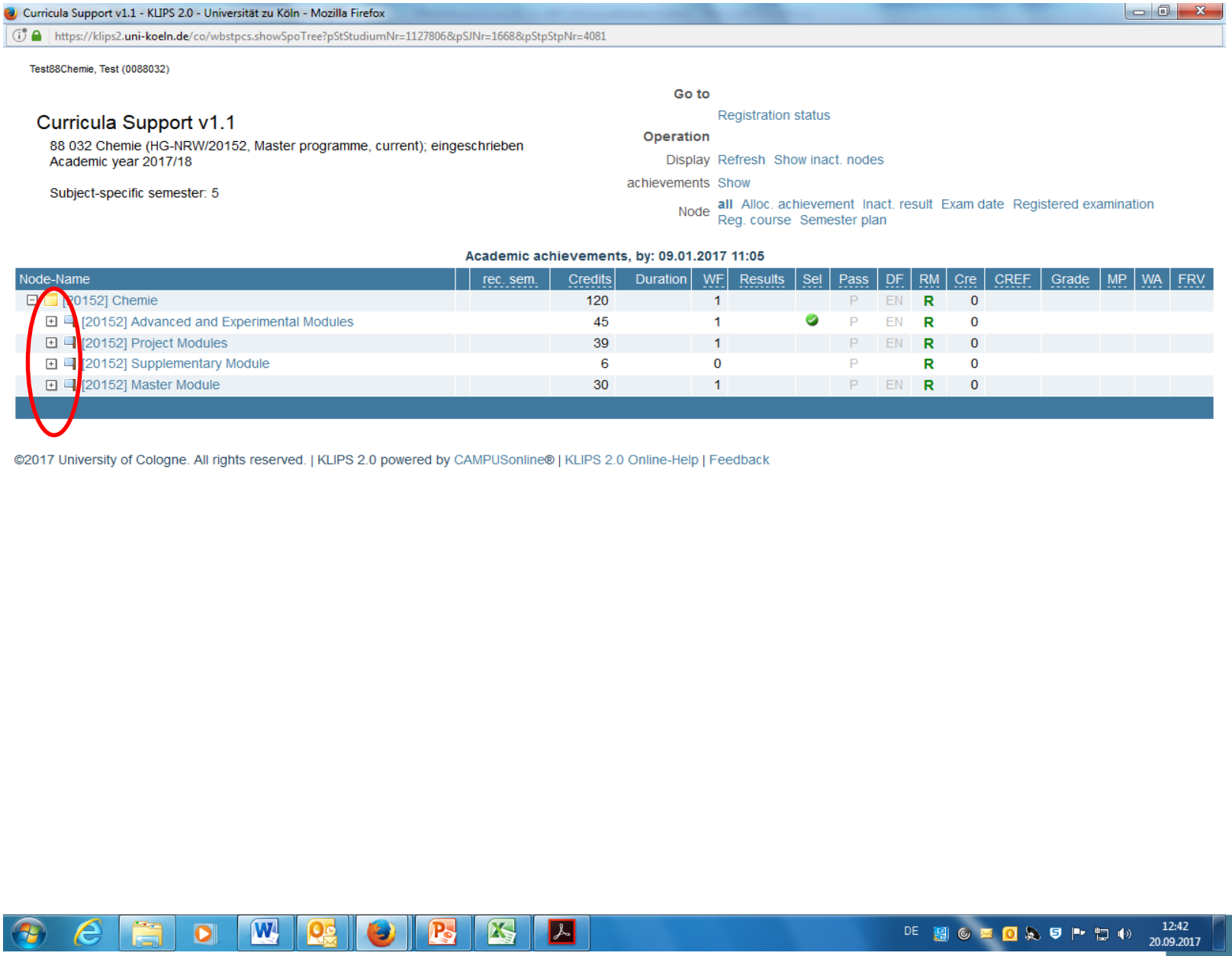

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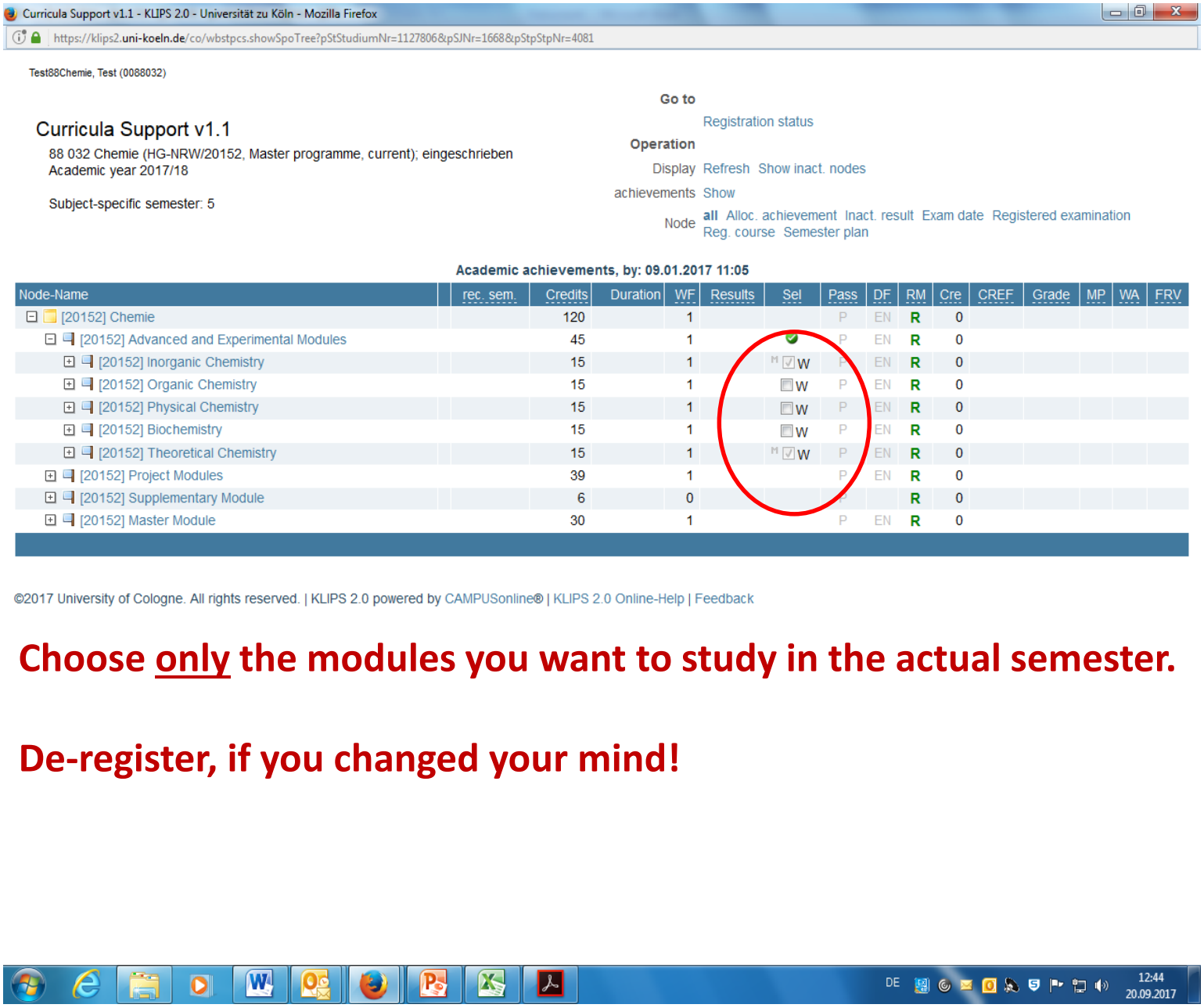

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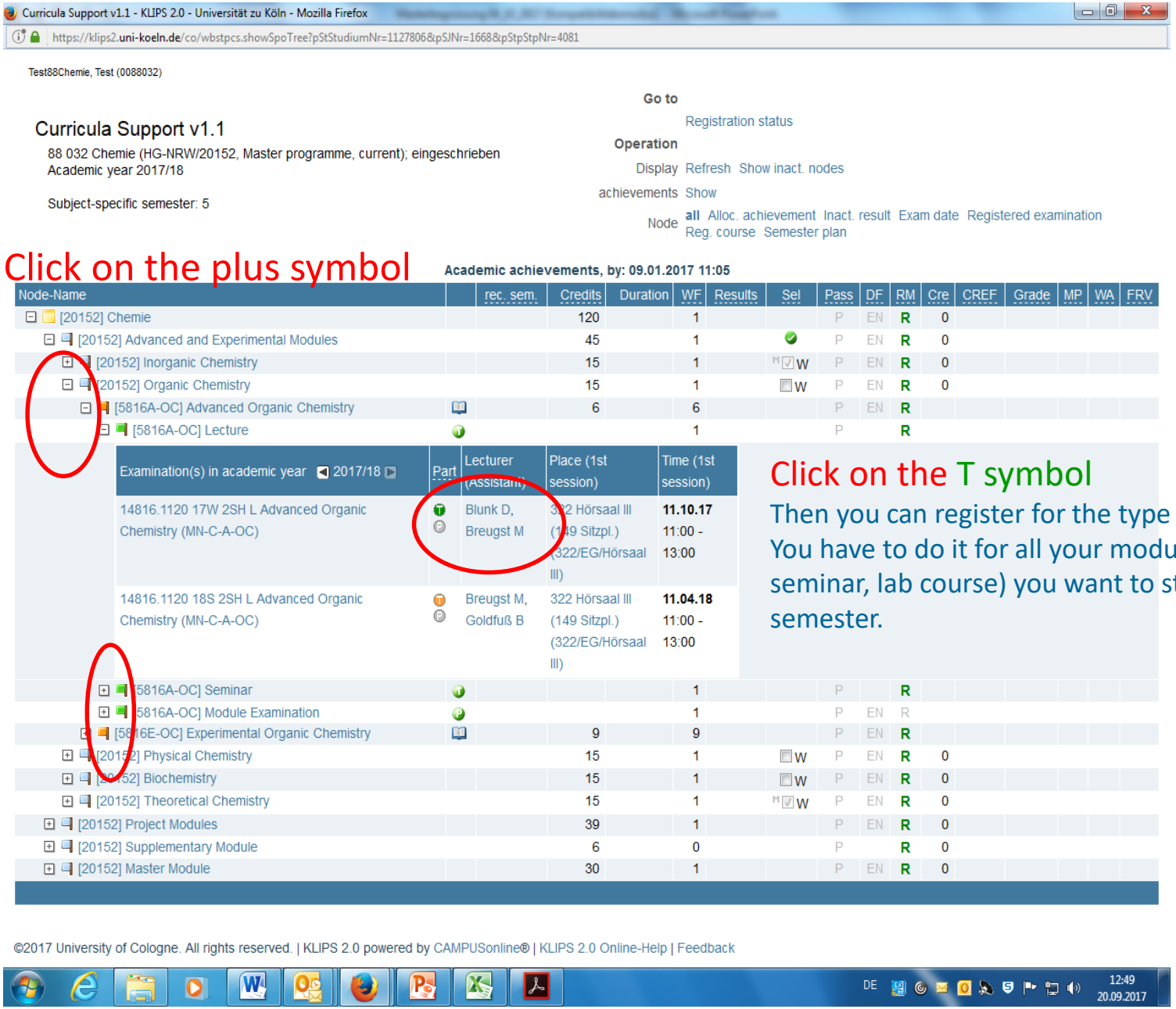

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If there are any problems with the registration in Klips 2.0 for modules or exams, please contact the examination office

Dr. Heike Henneken
heike.henneken@uni-koeln.de
-1791
Room Hs 113a

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Participate and get connected!

GESELLSCHAFT DEUTSCHER CHEMIKER

Ortsverband Köln – Leverkusen

Vorsitzender: Prof. Dr. Axel Klein

Kolloquien im Sommersemester 2019

Dienstag, 30. April 2019 - 17:00 Uhr – Leverkusen*
Prof. Dr. Andreas Klamt
Institut für Physikalische und Theoretische Chemie, Universität Regensburg;
CEO COSMOlogic Leverkusen
„COSMO-RS: Von der Quantenchemie über statistische Mechanik zu Löslichkeiten, Phasendiagrammen und Mizellbildung“

Dienstag, 07. Mai 2019 - 17:00 Uhr – JCF
Dr. Adam Franz
BASF, SE, Ludwigshafen
„Arbeiten in der chemischen Industrie – Wie sieht der Berufseinstieg und Alltag aus?“

Dienstag, 21. Mai 2019 - 17:00 Uhr – GDCh
Prof. Dr. Michael Fröba
Institut für Anorganische und Angewandte Chemie der Universität Hamburg
„Chemie in Nanoporen. Kann räumliche Enge auch von Vorteil sein?“

Dienstag, 28. Mai 2019 - 17:00 Uhr – GDCh
Prof. Dr. Brigitte Voit
Leibniz-Institut für Polymerforschung Dresden
„Einstellen der Optoelektronischen Eigenschaften von Polymeren über "Macromolecular Engineering““

Dienstag, 04. Juni 2019 - 17:00 Uhr – GDCh + JCF
Dr. Jonathan E. Forman
Scientific Advisory Board (SAB) Organisation for the Prohibition of Chemical Weapons
OPCW, Den Haag, the Netherlands
„wird nachgeliefert“

Dienstag, 02. Juli 2019 - 17:00 Uhr – GDCh
Prof. Dr. Mary Garson
School of Chemistry and Molecular Biosciences, University of Queensland, Australia
„Game of Terpenes: Structures, Stereochemistry and Chemical Ecology of Nudibranch Metabolites“

* im Gebäude W17 CampLev Saal, Kaiser-Wilhelm-Allee, Leverkusen

*** JCF *** = Veranstaltungen des Jung Chemiker Forums Köln

Die Vorträge finden – falls nicht anders angekündigt – im Hörsaal III der Chemischen Institute, Universität zu Köln, Department für Chemie, Greinstraße 4-6, 50939 Köln, statt.

Go abroad!

Get informed one year in advance.
Ideal: P- or S-modules at other university

Contact: Dr. Heike Henneken

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http://www.vivateachers.org/lesley-study-abroad-find-out-everything-you-need-and-more/

Success and fun in your master study program!

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Source: Danny Kennedy Fitness