The European Master’s Program in Computational Logic

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"Logic is everywhere..."
The European Master’s Program in Computational Logic (EMCL)

► EMCL is a distributed European Master’s Program
  ▶ Free University of Bozen-Bolzano (FUB)
  ▶ Technische Universität Dresden (TUD, coordinating institution)
  ▶ Nova Universidade de Lisboa (UNL)
  ▶ Technische Universität Wien (TUW)
  ▶ Nactional ICT Australia (NICTA)

► Joint MSc degree from the European universities at which a student has physically studied

► Supported by the European Union within the Erasmus Mundus Program since 2004
Curriculum – Mandatory Modules and Master Thesis

► Basic Modules (54 cr)
  ▶ Foundations (first semester, 9 cr, TUD)
  ▶ Logic and Constraint Programming (first semester, 9 cr, TUD)
  ▶ Advanced Logic (second semester, 8 cr, FUB)
  ▶ Integrated Logic Systems (second semester, 8 cr, FUB)

► Presentation and Communication Skills
  (second and third semester, 4 cr any European university)

► Project (third semester, 16 cr, any European university and NICTA)

► Master Thesis (forth semester, 30 cr, any European university)
Curriculum – Advanced Modules

- Advanced Modules (12cr each; select at least three; first - third semester)
  - Constraints (UNL)
  - Computational Logic for Information Technology (TUW)
  - Computer Science Engineering (all European universities)
  - Knowledge Representation (all European universities)
  - Logical Foundations (TUW)
  - Logics and Languages for Software Reliability and Security (UNL)
  - Modelling and Verification (TUD, TUW)
  - Natural Language Processing and Automata (TUD)
  - Principles of Computation (FUB, TUW)
  - Principles of Data Management (FUB)
  - Principles of Inference (FUB)
  - Semantic Technologies (FUB)
  - Theoretical Computer Science and Logic (TUD)
Distribution

▶ First semester: TUD
▶ Second semester: FUB
▶ Third and forth semester: any European university
▶ Project Work may be done at NICTA
during the break between the second and third semester
EMCL versus MCL

- The International Master’s Program in Computational Logic (MCL)
- Curriculum of MCL is identical to the curriculum of EMCL
  - All mandatory modules are offered by TUD
  - Only the advanced modules offered by TUD can be selected
  - The master thesis is offered by TUD
- MSc degree from TUD
Some General Hints

▶ Read the EMCL booklet carefully
▶ Check out the EMCL web pages carefully and regularly
▶ Check your emails (on all your accounts) regularly
▶ Address questions concerning examinations, transcript of records, etc to the SCIS (Julia Koppenhagen) during the announced office hours.
▶ Address questions concerning individual modules to the respective module representatives
▶ Address questions concerning individual lectures to the respective lecturers
▶ Address all other questions to Sylvia Wünsch
▶ Join us during the weekly open house
▶ You may contact the coordinator (Steffen Hölldobler) anytime

- Office phone number: +49 351 46 33 83 40
- E-Mail: sh@iccl.tu-dresden.de
- Mobile phone number: +49 151 27 02 36 23 (in case of emergency)
Some More Specific Hints

► For Beginners

▷ Focus initially on the two mandatory basic modules
▷ If you can follow the lectures and the tutorials of the basic modules then add an advanced module
▷ At each university try to complete modules because modules are automatically accepted at all European universities
▷ Individual lectures are not automatically accepted at the European universities; you must negotiate with the module representatives

► For Second Year Students and Beyond

▷ Please see the coordinator personally during his consultation hours; bring an up to date transcript of records and your current plan of studies
▷ Projects are negotiated individually between students and supervisors; you must become active
Some Even More Specific Hints for Foreign Students

- We assume that you have come to Germany because you want to be exposed to Germans, a German university and German culture
  
  - Avoid your fellow countrymen and -women; you can meet them when you are back home
  
  - Make contact with Germans in the university, in the dormitories, in the city, etc and during your studies, during shopping, during sports, during leisure etc
  
  - Learn the German language by speaking to Germans
  
  - A German is likely to be as shy as you in approaching a foreigner; be brave; if you make contact it is likely to be an advantage for both of you
A Final Hint

▶ In case you experience any problems whatsoever please contact us immediately; don’t wait;
problems will usually not go away, we will just have less time to solve them