Based on 25 of the Higher Education Act of the Free State of Saxony (Schsisches Hochschulgesetz - SHG) of 4th August 1993 (Schs GVBl, p. 691), amended by the law of 24th May 1994 (Sächs. GVBl., p. 1006), amended by the law of 7th April 1997 (Schs. GVBl., p. 353), Dresden University of Technology enacts the following Study Regulations.

Article 1 Foundations

The Study Regulations describe the goals, contents and administration of the International MSc Program in Computational Logic on the basis of the “Regulations for the Diploma Examination for Computer Science at Universities and University-level Institutions of Equal Status”, presented by the “Joint Commission for Coordinating the Regulation for Study and Examination” on 25th February 1993 as well as the “General Provisions for Diploma Examinations”, adopted by the Conference of Rectors and Presidents of University-level Institutions in the Federal Republic of Germany on 18th February 1992 and of the “Examination Regulations for the International MSc Program in Computational Logic at Dresden University of Technology” on 09th July 2002.

Article 2 Program Objectives

(1) This objective of the programme is to impart to the student the profound theoretical and practical knowledge required for professional practice in the field, to give him a survey of the individual disciplines of Computational Logic and to develop his ability to work according to scientific methods. In addition, the student is given the opportunity to plan his studies to fit a particular practical application. To acquire practice-oriented knowledge he may choose appropriate combinations of subjects. By mean of visits abroad and English as the language of instruction, the student is to be prepared for the increasing internationalism of science, economy and industry.

(2) The qualification for professional practice and research obtained by the International MSc Program in Computational Logic is determined by the Master’s examination. The examination is a vehicle for determining whether the candidate has an overview of his field, whether he has acquired the technical knowledge and skills required for professional practice and whether he is capable of applying knowledge and scientific methods independently.

\[1\] In these Regulations masculine designations of persons apply to female persons as well.
On successful completion of the examination, Dresden University of Technology awards the academic degree of “Master of Science” (abbr. M.Sc.). The certificates indicate that the degree was obtained in the International MSc Program in Computational Logic.

**Article 3 Study Requirements**

(1) Applicants for the International MSc Program in Computational Logic must satisfy the following study requirements:

1. Proof of a minimum knowledge of English such as an IELTS certificate or equivalent. Applicants whose native language is English are exempt from this requirement.
2. Bachelor’s degree in Computer Science or an equivalent degree or comparable university study records approved by the Examination Board.
3. Proof of extensive knowledge in the areas of
   - the foundations of mathematical logic
   - the foundations of artificial intelligence
   - the programming language Prolog
   is required with a grade equivalent to “good” or “very good”.
4. The requirements stated in 3. can be demonstrated by certificates, examination records or other written academic performance records.

(2) The fulfillment of the requirements mentioned in Paragraph 1 is decided by the Examination Board.

(3) Students are registered in accordance with the regulations of the University of Technology.

**Article 4 Commencement and Duration of Study**

(1) For beginners the programme normally commences in the winter semester.

(2) The regular period of study including preparation and defense of the Master’s thesis comprises four semesters.

(3) Students who acquired the study requirements of Article 3, Paragraph 1, Number 2 at a German university should spend one semester of the regular study period at a university-level institution in a country other than Germany. The semester abroad can also be used to prepare the Master’s thesis under supervision of a university lecturer at the foreign university. The Examination Board for the International MSc Program in Computational Logic decides on the semester abroad and its commencement upon application. Upon application the Examination Board also decides on whether an individual exception to this rule can be made. The students must ask a university lecturer’s advice on which courses to select at the foreign institution early enough before going abroad.
Article 5 Forms of Instruction

(1) Lectures, tutorials, seminars and practical sessions serve to introduce and consolidate course content.

(2) The subject matter is imparted in lectures. Each lecture has its associated exercises which serve to consolidate the subject matter. In tutorials, students discuss their solutions to exercises in supervised groups. Seminars serve to develop the student’s ability to research a particular field using literature, documentation and other material, and then to present his understanding and viewpoints on the acquired knowledge. Practical sessions serve for the practical application and deepening of the subject matter as well as the acquisition of practical skills using hardware and software.

(3) The language of instruction, work and examination is English. Students can take oral examinations in German.

Article 6 Course Structure and Content

(1) Lectures (including tutorials) take place in the first three semesters. This amounts to a total of 90 ECTS credit points (abbr. cr).

(2) Teaching is divided into essential foundation units and advanced modules (from which students may choose) and is divided up as follows:

- 36 cr of foundation modules,
- 42 cr of advanced modules, and
- 12 cr of practical work.

(3) Lectures cover the following areas: mathematical logic, logic programming, deduction systems, knowledge representation, artificial intelligence, formal methods in specification and verification, inference techniques, syntax-directed semantics, and the combination of theoretical computer science and logic.

(4) The distribution of the modules over individual semesters are listed in the attached Credit Hours Curriculum (Appendix 1).

(5) Details of individual subjects, the necessary prerequisites and their relevance for other subjects can be found in the examination regulations for the international masters programme in computational logic at Dresden University of Technology.

(6) In the final Master’s thesis the candidate should demonstrate that he is capable of independently solving a problem in Computational Logic or its applications using scientific methods.

(7) The study programme is completed with the Master’s examination.

(8) The student is advised to consolidate knowledge, abilities and skills acquired during his studies by means of practical professional work.
Article 7 Examinations and Course Credits

(1) Certificates in the Master’s examination, the examination procedure, recognition of coursework and recognition of examination results are managed according to the Examination Regulations of the Computational Logic Program.

(2) Course credits confirm successful completion of all or part of a course. These records determine admission to the Master’s examination and may include a grade. Academic performance may be assessed on the basis of oral or written examinations as well as written reports, seminar papers and/or protocols of practical work. The particular of assessment is to be made known at the beginning of each lecture period. The issuing of a credit must be decided by the end of the examination period of the respective semester. The regulations on examination re-sits (Article 14 of Examination Regulations) do not apply to credits. Nevertheless, credits must be obtained within the deadlines stated in Article 3 of the Examination Regulations.

Article 8 Recognition of Coursework and Examination Results

Records of attendance, course performance or examination results which were obtained in other courses, at other universities or at university–level institutions of equal status are to be taken into account in accordance with the Examination Regulations for the International Program in Computational Logic by the Examination Board.

Article 9 Student Advisory Service

The Student Advisory Service of the Faculty of Computer Science of Dresden University of Technology gives advice relating to course requirements, examinations, university transfer, study abroad or any other study–related matter. In accordance with the international character of the programme counseling is also available over the Internet.

Article 10 Validity and Publication

These Study Regulations shall be in force with effect from 1st October 1999 and shall be announced in the "Amtliche Bekanntmachungen" (official announcements) of Dresden University of Technology.

Given on the basis of the decision by the Senate of Dresden University of Technology of July 2, 1997, modified on the basis of the decision by the Senate of Dresden University of Technology of April 12, 2000 and the announcement by the Saxon Ministry of Science and Art.

Dresden, May 09, 2000
# Appendix 1 Credit Hours Curriculum

<table>
<thead>
<tr>
<th>Module</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Introduction to Computational Logic</td>
<td>9</td>
</tr>
<tr>
<td>Foundations of Logic and Constraint Programming</td>
<td>9</td>
</tr>
<tr>
<td>Advanced Logic</td>
<td>9</td>
</tr>
<tr>
<td>Deduction Systems</td>
<td>9</td>
</tr>
<tr>
<td>Selected advanced modules</td>
<td>42</td>
</tr>
<tr>
<td>Practical work</td>
<td></td>
</tr>
<tr>
<td>Master’s thesis</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
</tr>
</tbody>
</table>

The Rector
of Dresden University of Technology

Prof.Dr.rer.nat.habil. A. Mehlhorn