

Only the German version of the module description as part of the study regulations is legally binding.

Module name	Seminar Theoretical Computer Science and Symbolic Artificial Intelligence
Module number	INF-25-Ma-FTK-Sem
Responsible lecturer	Dr. Jakob Piribauer jakob.piribauer@tu-dresden.de
Qualification objectives	Students will be able to capture the contents of scientific publications from a subject area of Theoretical Computer Science and Symbolic Artificial Intelligence, present them in a comprehensible manner and critically analyze the acquired knowledge. They are able to critically assess and convey the application of the methods of the Department of Theoretical Computer Science and Symbolic Artificial Intelligence as well as to recognize cross-application approaches.
contents	Contents of the module are the analysis and discussion of scientific publications on a topic of the student's choice in the field of Theoretical Computer Science and Symbolic Artificial Intelligence.
Forms of teaching and learning	The module includes seminars in the scope of 2 SWS and self-study. The teaching language of the seminars can be German or English and will be specified by the lecturer at the beginning of each semester and announced in the usual way.
Requirements for participation	The competences to be acquired in the modules INF-25-Ba-AuD Algorithms and Data Structures, INF-25-Ba-AuB Automata and Predictability Theory, INF-25-Ba-LuK Logic and Complexity, INF-25-Ba-Ma1 Linear Algebra and Analysis, INF-25-Ba-Ma2 Discrete Structures, INF-25-Ba-Ma3 Algebra and INF-25-Ba-Ma4 Probability Theory and Statistics are required in the Computer Science Diploma Programme. The Master's programme in Computer Science requires knowledge of the basics of algorithm design, formal languages, theoretical computer science and the logic of statements and predicates, as well as knowledge of mathematics at the bachelor's level.
usability	The module is a compulsory elective module in the field of Theoretical Computer Science and Symbolic Artificial Intelligence in the master's degree programme Computer Science, which must be chosen in accordance with Annex 2 to the Examination Regulations. The module in the Master's programme Computer Science is a compulsory elective module in the Open Track in the subject area Theoretical Computer Science and Symbolic Artificial Intelligence as well as the supplement, which is to be selected in accordance with Annex 2 to the examination regulations. The module can only be selected once in the Master's programme Computer Science. The module cannot be selected in the Master's program Computer Science if this or a substantially identical module from a degree program with which the admission requirements according to § 3 of the study regulations have been fulfilled, has already been completed. The

	module creates the prerequisites for the modules, which it names under prerequisites for participation.
Conditions for awarding credits	The credit points are earned when the module examination has been passed. The module exam consists of a complex performance of 40 hours. The language of the examination is German or English at the choice of the student.
Credits and grades	3 credit points can be earned through the module. The module grade corresponds to the grade of the examination performance.
Frequency of the module	The module is offered every summer semester.
workload	The total workload is 90 hours.
Duration of the module	The module covers one semester.