Module name	**Literature Studies in Knowledge Representation and Reasoning**
Module number	CMS-SEM-KR
Senior Lecturer	Prof. Dr. Sebastian Rudolph sebastian.rudolph@tu-dresden.de
Qualification objectives	Students are able to conduct independent literature searches in the field of logic-based knowledge representation. You can get an overview of the current state of research in one area of knowledge representation and record the results of such literature searches in writing. They are also able to present these results to a specialised audience and to respond to questions from the audience.
Contents	Content is the subject of logic-based knowledge representation, in particular logic-based formalities to represent knowledge, its predictability and complexity properties, and reasoning algorithms and their implementation.
Forms of teaching and learning	The module includes seminars of 2 SWS and self-study. The language of the seminars will be English.
Eligibility for participation	Knowledge of the logic of statements and predictions and basic knowledge of the theory of predictability and complexity at bachelor's level are required.
Usability	In the Masters Course Computational Modeling and Simulation, the module is a compulsory optional module of basic scientific methodological training, to be chosen in accordance with Annex 1 to the Specific Examination Regulations. The module cannot be chosen in the Master's Course Computational Modeling and Simulation if this or a module with substantially the same content from a Course with which the entry conditions under § 3 of the Studienordnung have been met has already been completed. The module provides the pre-requisites for the modules it designates under the pre-requisites for participation.
Conditions for the award of credits	Credits are awarded when the module test is passed. The module test consists of a complex performance of 50 hours. The language of the test will be English.
Credits and marks	The module allows for 3 credit points. The module score corresponds to the test performance score.
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 1 semester.