Subdivided Module Catalogue
for the Subject

Games Engineering
with the degree "Modulstudium (Bachelor)"
(ECTS credits)

Examination regulations version: 2019
Responsible: Institute of Computer Science
Das Studienfach Games Engineering wird von der Fakultät für Mathematik und Informatik der JMU als grundlagenorientierter Studiengang mit dem Abschluss „Bachelor of Science“ (B.Sc.) (Erwerb von 180 ECTS-Punkten) im Rahmen eines konsekutiven Bachelor- und Master-Studienmodells angeboten.

Das Studium Games Engineering vermittelt neben fachspezifischen Kompetenzen auch Kompetenzen aus der Informatik. Nach erfolgreichem Abschluss des Studiums verfügen die Studierenden über folgende Kompetenzen:

1. Allgemeine Kompetenzen
   a. Kritische Reflexion und Einordnung von wissenschaftlichen Erkenntnissen
   b. Schriftliche und mündliche Präsentation erworbener Kenntnisse
   c. Durchführung eigener wissenschaftlicher & angewandter Projekte
   d. Verfassen wissenschaftlicher Texte nach fachlichen Standards
   e. Teamarbeit.

2. Methodische Kompetenzen
   a. Analytisches Vorgehen und Abstraktionsvermögen
   b. Algorithmisches Denken und Konstruieren
   c. Verständnis und Strukturierung komplexer Zusammenhänge
   d. Analyse-, Design- und Evaluationsmethoden für Games-Systeme.

3. Inhaltliche Kompetenzen
   a. Programmierung und programmiertechnische Verfahren
   b. Softwareentwurf und Softwareanalyse
   c. Entwicklung interaktiver Systeme im Games Engineering
   d. Technische Grundlagen informatischer Systeme.
Abbreviations used

Course types: E = field trip, K = colloquium, O = conversatorium, P = placement/lab course, R = project, S = seminar, T = tutorial, Ü = exercise, V = lecture

Term: SS = summer semester, WS = winter semester

Methods of grading: NUM = numerical grade, B/NB = (not) successfully completed

Regulations: (L)ASPO = general academic and examination regulations (for teaching-degree programmes), FSB = subject-specific provisions, SFB = list of modules

Other: A = thesis, LV = course(s), PL = assessment(s), TN = participants, VL = prerequisite(s)

Conventions

Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not creditable for bonus.

Notes

Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the method of assessment to be used in the current semester by two weeks after the start of the course at the latest and will communicate this in the customary manner.

Should the module comprise more than one graded assessment, all assessments will be equally weighted, unless otherwise stated below.

Should the assessment comprise several individual assessments, successful completion of the module will require successful completion of all individual assessments.

In accordance with

the general regulations governing the degree subject described in this module catalogue:

associated official publications (FSB (subject-specific provisions)/SFB (list of modules)):

15-May-2019 (2019-36)
27-Jun-2019 (2019-41)
14-Nov-2019 (2019-52)

This module handbook seeks to render, as accurately as possible, the data that is of statutory relevance according to the examination regulations of the degree subject. However, only the FSB (subject-specific provisions) and SFB (list of modules) in their officially published versions shall be legally binding. In the case of doubt, the provisions on, in particular, module assessments specified in the FSB/SFB shall prevail.
The subject is divided into

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<th>Module coordinator</th>
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<tr>
<td>holder of the Chair of Computer Science IX</td>
<td>Institute of Computer Science</td>
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<tr>
<td>1 semester</td>
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**Contents**

Selected chapters of Games Engineering.

**Intended learning outcomes**

The students possess special knowledge in the area of Games Engineering. They are able to understand solutions of complex problems in this area and can transfer them to related questions.

**Courses** (type, number of weekly contact hours, language — if other than German)

V (2) + Ü (2)  
Module taught in: German or English  
Course type: alternatively S (2) instead of V, T (2) instead of Ü

**Method of assessment** (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)

a) written examination (approx. 60 to 120 minutes) or b) presentation of project results (approx. 20 minutes)  
Language of assessment: German and/or English  
 créditable for bonus

**Allocation of places**

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**Additional information**

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**Referred to in LPO I** (examination regulations for teaching-degree programmes)

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