Aschaffenburg
University of Applied Sciences

Faculty of Engineering

Study Plan

for the Bachelor's Degree Programme
Software Design International

Winter Semester 2023/2024

Issued for the undergraduate degree programme "Software Design International" at the Aschaffenburg University of Applied Sciences by emergency decision of the Dean on 29.09.2023 and by resolution of the Faculty Council of the Faculty of Engineering on 18.10.2023.

This study plan applies in conjunction with the Study and Examination Regulations dated 01.08.2023 (SPO11).

Prof. Dr Vaupel, Dean

Content

Abbreviations

SWS	Semesterwochenstunden (EN: Weekly Teaching hours)
SPO	Studien- und Prüfungsordnungen (EN: Study and Examination Regulations)
AWPF	Allgemeinwissenschaftliche Wahlpflichtfach (EN: General Science Compulsory Elective Module)
FWPF	Fachwissenschaftliche Wahlpflichtfach (EN: Subject-specific Compulsory Elective Module)
WPF	Wahlpflichtfach (EN: Compulsory Elective Module)
APO	Allgemeine Prüfungsordnung der Technischen Hochschule Aschaffenburg (EN: General Examination Regulations of Aschaffenburg University of Applied Sciences)
VHB	Virtuelle Hochschule Bayern (EN: Virtual University of Bavaria)
ECTS	European Credit Transfer and Accumulation System

Part A: Modules and Exams

This study plan is based on SPO 11 dated 01.08.2023, amended by statutes dated 01.08.2023 and applies to students of the Bachelor's degree Programme "Software Design International" who commence their studies from the winter semester 2023/2024.

A1: From the first to fourth semester

The teaching language for the courses is specified in the module manual. The numbering is identical to that of the Study and examination regulations.

Note on study progress according to §6 SPO: Students must have passed the following subjects until the end of the second semester:

- SDI_01 Mathematics I
- SDI_03 Foundations of Programming Technologies
- SDI_07 Foundations of IT-Hardware

(Fundamentals and Orientation Examination).

If students exceed the deadline according to sentence 1, the examinations not yet taken shall be deemed to have been failed for the first time.

A 1.1: Study Overview

The study overview can be found in the Study and examination regulations. There are no deviations for the winter semester 2023/2024.

A2: From the Fifth to Seventh Semester

The teaching language of the courses is specified in the module handbook. The numbering is identical to that of the Study and examination regulations.

Note on study progress according to §6 SPO: Students who have achieved 70 ECTS credits are entitled to enter the practical training semester.

A 2.1: Study Overview

The study overview can be found in the Study and examination regulations. There are no deviations for the winter semester 2023/2024.

A3: Bonus Points according to APO §9a

According to the APO, Art. 9. additional bonus points may be offered in suitable modules by the examiner. These bonus points are in addition to the examination process and undertaken by the examiner on a voluntary basis. The bonus points do not replace the actual examination performance. Bonus points can be offered in one or more of the following ways:

- Working on exercises with/without presentation
- Working on small projects with/without presentation
- Writing a lab/internship report

The module handbook specifies for each individual (sub-)module how the bonus points can be obtained.

Part B: Major

The focus modules are defined in the separate statute "Focus modules for engineering degree programmes at Aschaffenburg University of Applied Sciences". These will become a binding part of this degree programme as soon as the specialisation courses are offered for the first time for the degree programme Software Design International.

Students in the Bachelor's degree programme Software Design International must take a specialisation module of 14 SWS (weekly teaching hours) and 20 ECTS credits.

Students choose their major to study in the fifth semester (subject to availability).

If the student has not chosen their major by the fifth semester, the major is assigned to the student.

The statutes, the study plan and the module handbook for the specialisations can be viewed on the intranet of the Aschaffenburg University of Applied Sciences as well as on the internet under the following links:

www.th-ab.de/studium/im-studium/organisiert-im-studium/studien-und-pruefungsrecht
under *Software Design International*

During the start-up phase of the degree programme, the choice of specialisations may be severely restricted due to organisational and staffing reasons. Therefore, the regulations published in the study plan of the respective academic year must be observed.

Part C: Compulsory Elective Modules

C1: Subject-specific Compulsory Elective Modules

Students in the degree programme Software Design International must choose subject-specific compulsory elective modules in the course of the degree programme amounting to at least 4 ECTS credits. Additional compulsory elective courses (FWPF) can be chosen and included in the overall grade as specified in the SPO. Section C3 lists the offered and approved compulsory electives in the module area. Furthermore, focus-related modules that could be chosen as majors within the degree programme Software Design International can be taken as compulsory elective modules if these modules do **not** belong to the chosen majors.

C2: General Science Compulsory Elective Modules

Students in the degree programme Software Design International can choose general science compulsory elective modules as specified in the SPO. Section C3 lists the compulsory elective modules offered and approved in general studies.

General science compulsory elective modules can also be chosen from the foreign languages section of the Aschaffenburg UAS or from the economics section of the course programme of the Virtual University of Bavaria. English language courses upto level B2 are excluded. It is to be noted that the chosen modules have a scope of at least 2 ECTS credits.

C3: Compulsory Elective Modules Offered at Aschaffenburg University of Applied Sciences

The compulsory elective modules at Aschaffenburg University of Applied Sciences are taken online at the start of the semester. The modules that can be taken for the degree programme Software Design International as well as descriptions of the study objectives and study contents are available at

➔ www.th-ab.de/studium/im-studium/organisiert-im-studium/studien-und-pruefungsrecht

available. The number of students in a compulsory elective module is at least 15; modules with too few students cannot be offered. Proper enrolment is a prerequisite for admission to the examination.

C4: Compulsory Elective Modules Offered at the Virtual University of Bavaria

The Virtual University of Bavaria (VHB) offers Module components to all students at Bavarian universities; these can be selected as compulsory elective modules. The descriptions of these module components as well as the possibility to register can be found at

➔ www.vhb.org

All approved and offered compulsory elective modules are compiled in the following lists. Depending on the table entry, they can be taken as a subject-specific or general compulsory elective module.

Electives "Virtual University of Bavaria" - Department of Computer Science

Module	FWPF	AWPF	SWS	ECTS Credits
Usability für Ingenieure und Informatiker	x	x	2	2
Planung und Management von Computer Netzwerken (PMCIO)	x		4	5
Technologie und Architektur mikroelektronischer Schaltungen	x		4	5
Mainframe Programmierung	x	x	4	5

Electives "Virtual University of Bavaria" - Faculty of Engineering

Module	FWPF	AWPF	SWS	ECTS Credits
Usability für Ingenieure und Informatiker	x	x	2	2
Einführung in CAD mit solid edge	x		3	3
Integriertes Qualitäts- und Umweltmanagement		x	2	2
Elektronik und Schaltungstechnik	x		6	5
Elektronik 2 – Schaltungstechnik	x		4	5
Halbleiterbauelemente	x		4	5
Informationstheorie und deren Anwendung zur Nachrichtenübertragung	x		3	4
Planung und Management von Computer Netzwerken (PMCIO)	x		4	5
Technologie und Architektur mikroelektronischer Schaltungen	x		4	5
Qualitätstechniken - QTeK	x	x	2	3
Medical Image Processing for Diagnostic Applications (Englisch)	x		4	5
Medical Image Processing for Interventional Applications (Englisch)	x		4	5

Part D: Study Objectives and Contents

A detailed description of the study objectives and study contents of all modules listed in Part A of the study plan can be found in the module manual for the Bachelor's degree programme Software Design International of the Faculty of Engineering. The valid and current version of the module handbook can be found on the intranet of the Aschaffenburg University of Applied Sciences and on the internet at

www.th-ab.de/studium/im-studium/organisiert-im-studium/studien-und-pruefungsrecht

under *Software Design International*.