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# Curriculum

for the extension programme

## *Digital Skills*

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# Curriculum for the extension programme

## *Digital Skills*

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## Section 1 General remarks

- (1) The extension programme *Digital Skills* comprises 32 European Credit Transfer System-credits (ECTS credits). This corresponds to an anticipated study duration of two semesters. The extension programme *Digital Skills* is assigned to the group of studies in Engineering Sciences pursuant to Section 54 (1) of the Universities Act 2002 (UG).
- (2) The student workload related to the individual academic achievement is expressed in ECTS credits. The workload for one year should amount to 1,500 full hours, for which 60 ECTS credits are assigned (Section 54 (2) UG). The workload comprises independent study as well as the semester hours/contact hours, including participation in assessment procedures.
- (3) The extension programme *Digital Skills* serves as an extension to a Bachelor's, Master's or Diploma programme offered at the University of Klagenfurt for which admission has been granted or which has already been completed. It also serves to extend a Bachelor's, Master's or Diploma programme completed at another recognised domestic or foreign post-secondary educational institution.
- (4) Students who have already completed courses from the subject 'Digital Basic Skills' (8 ECTS credits, items 1.1 to 1.4 in Table 2) as part of another degree programme must instead choose subjects from corresponding guided electives worth at least the same number of ECTS credits, in consultation with the programme director of the extension degree programme.
- (5) The extension programme *Digital Skills* is taught in German.
- (6) The courses and examinations of the extension programme *Digital Skills* are held online.

## Section 2 Qualification profile and competences

- (1) The qualification profile describes the academic and professional qualifications that students gain by completing the programme.
- (2) Graduates of the extension programme *Digital Skills* have knowledge/skills in the areas listed below. These are based on the recommendations of the EU (Digital Competence Framework For Citizens - DigComp<sup>1</sup>, version 2.1 as amended) and include, among other things:
  - Knowledge of important terminology and contexts (computer science, information technology, digitalisation, media competence) in German and English
  - Knowledge of the different branches of computer science, basics of computer science and information technology
  - Computer science/algorithmic thinking and basic programming skills
  - Knowledge in the areas of (media) ethics and technology assessment
  - Information, data and media skills (media law, data protection law)
  - Social aspects (of media transformation and digitalisation)
  - Knowledge of current applications and topics of digitalisation and their effects (e.g. resource and energy requirements, artificial intelligence, social media, etc.)

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<sup>1</sup> DigComp 2.1: EU Science Hub. The Digital Competence Framework for Citizens. Online: <https://ec.europa.eu/jrc/en/digcomp/digital-competence-framework>. Last accessed: 31.3.2023.

### Section 3 Admission requirements

- (1) Admission to the extension programme *Digital Skills* is subject to the provisions of Section 54a (1) UG.
- (2) Students who wish to extend a degree programme they are currently pursuing at the University of Klagenfurt must, in addition to the provisions set out in paragraph 1, have completed the following academic achievements in the degree programme to be extended:
  - a) In the case of a Bachelor's degree programme, the completion of examinations and/or the Bachelor's thesis amounting to at least 120 ECTS credits;
  - b) In the case of a Master's degree programme, the completion of examinations and/or the Master's thesis amounting to at least 80 ECTS credits;
  - c) In the case of a Diploma degree programme, the completion of the first stage of the programme.
- (3) Individuals whose first language is not German are required to have German language skills at level B2 of the Common European Framework of Reference for Languages (CEFR).

### Section 4 Structure and organisation of the programme

Table 1: Structure of the extension programme *Digital Skills*

<b>Subject</b>	<b>Designation</b>		<b>Intended learning outcomes</b>	<b>ECTS credits</b>
<i>Required subjects</i>	1	<i>Basic digital skills</i>	<i>Upon completion of the required subject, students are able to place the term digitalisation in the appropriate computer science context and to explain the basic concepts and terminology of computer science as well as its history and classification. They are also able to design and implement simple algorithms and programs with the help of tools. Students can discuss computer science topics in German and English and write short scientific papers in German and English.</i>	<b>8</b>
	2	<i>Digital use and transformation</i>	<i>Upon completion of this required subject, students are able to describe current problems using computer science techniques and solve them with computer science and digital tools. They also acquire an overview of general basic concepts of ethics (interdisciplinary knowledge) and media and communication ethics in particular (specialised knowledge).</i>	<b>19</b>
	3	<i>Digital practice</i>	<i>Upon completion of the required subject, students are able to plan and implement small-scale projects with a digital focus.</i>	<b>5</b>
			<b>Total:</b>	<b>32</b>

## Section 5 Types of courses

- (1) Lectures (Vorlesung/VO) are courses in which knowledge is transferred by means of talks given by lecturers. The examination takes place in a single act (written and/or oral).
- (2) Courses with ongoing assessment are courses in which the assessment does not take place in a single examination act, but on the basis of written and/or oral contributions by the participants. If a seminar paper or a paper requiring a comparable degree of effort is required as part of a course with ongoing assessment, students may submit their work by the following 30 June for winter semester courses and by 31 January of the following year for summer semester courses.
- (3) Courses with ongoing assessment include:
  - a) Lecture with workshop (Vorlesung mit Kurs/VC): This course consists of a lecture component and a workshop component. These have common taught content and are assessed together.
  - b) Lecture with exercise class (Vorlesung mit Übungen/VU): This course consists of a lecture component and an exercise class component. These have common taught content and are assessed together.
  - c) Exercise class (Übung/UE): Exercise classes involve working on specific tasks and projects to consolidate the subject matter of the corresponding lecture.
  - d) Practical placement (Praktikum/PR): Placements complement the academic education and vocational training and serve the practical and professional objectives of the programme. Applied research or development work (a 'project') is carried out taking into account all the necessary work steps, preferably working in a team. Completing a written assignment to document project progress and project results forms an inherent part of the placement.

## Section 6 Courses

The courses for each subject are listed in the table below:

Table 2: Required subjects and assigned courses

	<i>Course title</i>		<i>Course type</i>	<i>ECTS credits</i>
<b>Basic digital skills</b>	1.1	Einführung in die Informatik für ESDK	VO	1
	1.2	Einführung in die Informatik für ESDK	UE	2
	1.3	Basiskompetenzen: Propädeutikum zur Programmierung	VC	3
	1.4	English for Computing	VC	2
			<b>Total:</b>	<b>8</b>
<b>Digital use and transformation</b>	2.1	Digitale Kompetenzen I	VU	6
	2.2	Digitale Kompetenzen II	VU	5
	2.3	Gesellschaftliche Aspekte der Digitalisierung	VO	4
	2.4	Ethik der Digitalisierung	VO	4
			<b>Total:</b>	<b>19</b>
<b>Digital practise</b>	3.1	Praxisprojekt und Abschlussarbeit	PR	5
			<b>Total:</b>	<b>32</b>

## **Section 7 Courses with a limited number of participants**

- (1) The maximum number of participants permitted on the courses listed below is as follows:
  - a) 1.2 UE Einführung in die Informatik für ESDK: 25;
  - b) 1.3 VC Basiskompetenzen: Propädeutikum zur Programmierung: 20;
  - c) 1.4 VC English for Computing: 30;
  - d) 2.1 Digitale Kompetenzen I: 25;
  - e) 2.2 Digitale Kompetenzen II: 25;
  - f) 3.1 Praxisprojekt und Abschlussarbeit: 20.
- (2) If the number of registrations for these courses exceeds the number of places available, students will be accepted in accordance with the following procedure:
  - a) Students for whom the course is a required subject or guided elective according to their curriculum or, respectively, as a required subject or elective in the case of an extension programme, are given priority.
  - b) If the number of registrations still exceeds the number of available places, the students are ranked based on the previously acquired ECTS credits for the curriculum that stipulates the course in question as a required subject/ guided elective, or as a required subject or elective in the case of an extension programme. Students with a higher total are ranked higher.

## **Section 8 Courses with special registration requirements**

Registration for 'Praxisprojekt und Abschlussarbeit' (course 3.1) is subject to a positive assessment of the courses 'Digitale Kompetenzen I' (course 2.1), 'Digitale Kompetenzen II' (course 2.2) and 'Basiskompetenzen: Propädeutikum zur Programmierung' (course 1.3).

## **Section 9 Use of languages other than German**

- (1) Courses and exams are generally held in German. Some courses may be held in English.
- (2) At the student's request, exams may be taken in English with the consent of the lecturer.

## **Section 10 Examination regulations**

- (1) The examination regulations of the respective curriculum from which the courses are drawn or the regulations of the university statutes apply.
- (2) The extension programme *Digital Skills* is deemed to have been completed once students have passed all of the required subjects. The certificate can only be issued once the programme that is being extended has been completed.

## **Section 11 Effective validity**

- (1) This curriculum enters into force after announcement in the University of Klagenfurt university bulletin as of 1 October 2020 and applies to all students who commence their extension programme from the 2020/21 winter semester onwards.
- (2) The amendments to the curriculum, published in the Bulletin of the University of Klagenfurt on 7 June 2023, Issue 17, No. 108.2, enter into force on 1 October 2023. Students starting their extension programme from the winter semester 2020/21 onwards are subject to the amended curriculum from the time it enters into force.

**APPENDIX Non-binding recommended course of study****Semester 1**

<b>Courses</b>	<b>Course type</b>	<b>ECTS credits</b>	<b>Total</b>
Einführung in die Informatik für ESDK	VO	1	
Einführung in die Informatik für ESDK	UE	2	
Basiskompetenzen: Propädeutikum zur Programmierung	VC	3	
Ethik der Digitalisierung	VO	4	
Digitale Kompetenzen I	VU	6	16

**Semester 2**

<b>Courses</b>	<b>Course type</b>	<b>ECTS credits</b>	<b>Total</b>
Digitale Kompetenzen II	VU	5	
Gesellschaftliche Aspekte der Digitalisierung	VO	4	
English for Computing	VC	2	
Praxisprojekt und Abschlussarbeit	PR	5	16