

Weingarten competency framework

Deutsche Version

The rapid pace of digital transformation not only changes our daily life, but also has profound effects on education. In order to prepare teachers for the requirements of future teaching environments the transfer of digital competencies is essential.

The Weingarten competency framework of digital skills for teachers builds up on those requirements and serves as a comprehensive foundation which is based on the [DigCompEdu framework](#).

Framework description

The model consists of 3 competencies (“digital school-related competencies”, “media subject-related competencies” and “media education” as well as their overlaps), which are divided into 10 sub-areas. These sub-areas comprise a total of 152(4) individual competencies with their respective title of competencies and description of competencies. The 152(4) competencies are divided into the three-part “basic competencies”, “detail competencies” and “advanced competencies”. The basic competencies are a mixture of competencies, which are at different taxonomy levels (knowledge, application, further development). The university of education Weingarten has derived 8 abstract competencies for its course manual.

Within the area of „digital school-related competencies“, the focus is on enabling prospective teachers to use digital media for professional communication with learners, parents and non-school stakeholders, for cooperation within the school community, for their own professional development and for digital school development in a contextual-based and goal-oriented manner.

In the area of „media subject-related competencies“, prospective teachers are enabled to systematically integrate digital media into their own lessons and thereby unleash the full potential for their own subject.

In „media education“, the focus is on promoting learners' digital-related competencies. Prospective teachers can guide and support learners in their development in the reflective and responsible use of digital media.

10 sub-areas (e.g. innovation & reflective practice) with overlaps („digital resources“ and „learner guidance“) are assigned to the 3 areas of competence. The competencies fall under these ten sub-areas, each of which was assigned to only one taxonomy level in order to make the model applicable and testable in teaching.

This framework is specially designed to serve as a sound basis for the design and implementation of courses, with the aim of equipping prospective teachers both theoretically and practically for an efficient and ethically responsible use of digital technologies in teaching.

Weingarten competency framework divided into 10 sub-areas

Digital school-related competencies - Teachers' professional competencies

Media subject-related competencies - Teaching competencies

Media education - Learners' education

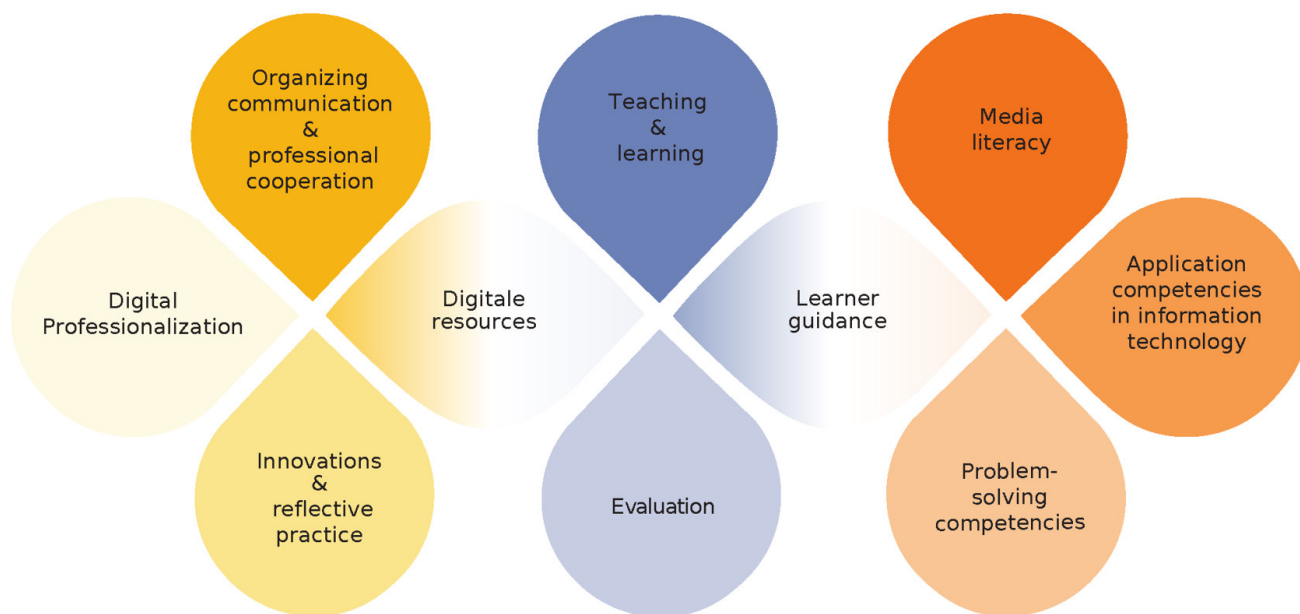


Table overview of the weingarten competency model

The table below describes the Weingarten model in its entirety. The table is divided into three levels, the 3 competency levels. The „basic competencies“, „detailed competencies“ and „advanced competencies“. Within each competency level, there are the 3 competencies areas mentioned above: „Digital school-related competencies“, „Media subject-related competencies“ and „Media education“. A total of 152(4) competencies are described in this hierarchy.

Basic competencies: Digital school-related competencies

| Digital school-related competencies | |
|--|---|
| Organizing communication & professional cooperation (with learners + parents + extracurricular stakeholders/third parties) | |
| 1 | School and class management |
| 2 | Synchronous and asynchronous communication and collaboration |
| 3 | Project and knowledge management systems |
| Digital Professionalization (with other teachers) | |
| 4 | Professional training |
| 5 | Online training |
| Innovations and reflective practice | |
| 6 | Evaluation of digital teaching strategies |
| 7 | Documentation reflection of own learning activities and competences |
| 8 | Exposure to digital technologies |
| 9 | Developing innovation processes |

Basic competencies: Media subject-related competencies

| Media subject-related competencies |
|--|
| Digital resources |
| <i>Legal foundation</i> |
| 10 Copyright and licenses |
| 11 GDPR |
| 12 Personal rights |
| <i>Search and sustainability</i> |
| 13 Finding digital resources |
| 14 Media management |
| 15 File organization and tools |
| <i>Design and instruction principles</i> |
| 16 Design principles media |
| 17 Usability |
| <i>Media development</i> |
| 18 Software |
| 19 Hardware |
| <i>Teaching and learning</i> |
| <i>Learning theory principles & models of instructional design</i> |
| 20 Basic instructional design models |
| 21 Media-based learning |
| <i>Condition analysis (actors & environment)</i> |
| 22 Market, context and target group analysis |
| 23 Technical and organizational requirements |
| <i>Teaching content</i> |
| 24 Digital learning environments/ LMS |
| 25 Adequacy of media content |
| <i>Teaching objectives</i> |
| 26 Educational problem |
| 27 Media teaching goal definition |
| <i>Teaching methods</i> |
| 28 Expository and exploratory methods |
| 29 Problem based and cooperative methods |
| <i>Media</i> |
| 30 Digital information and communication media |
| 31 E-learning |
| 32 Synchronous and asynchronous management |
| <i>Evaluation</i> |
| <i>Learning diagnosis / diagnostics</i> |
| 33 Learning outcome diagnosis/ learning requirements |
| 34 Learning progress |
| <i>Feedback and planing</i> |
| 35 Digital feedback possibilities |
| <i>Learner guidance</i> |
| <i>Learning prerequisites</i> |

| Media subject-related competencies |
|---|
| 36 Socioeconomic factors |
| 37 Technical instruction |
| <i>Learner activation</i> |
| 38 Cognitive activation |
| 39 Contextual teaching |
| 40 Instruction in open forms of teaching |

Basic competencies: Media education

| Media education |
|--|
| Media literacy |
| 41 Media literacy |
| Application competencies in information technology |
| 42 Media projects |
| 43 Media usage |
| 44 Communication and code of conduct |
| 45 Role play in media-based education |
| Problem-solving competency |
| <i>Pleasure and addiction</i> |
| 46 Media and data awareness |
| 47 Communication culture |
| 48 Selection capability |
| 49 Media effects |
| 50 Basics of information technology |

Detail competencies: Media subject-related competencies

| Media subject-related competencies |
|---|
| Digital resources |
| <i>Legal foundation</i> |
| 51 Sources |
| 52 Open Educational Resources (OER) |
| 53 Creative Commons (CC) |
| 54 Data protection and information security - Communication |
| 55 Data security/data protection |
| 56 GDPR |
| 57 Personal rights |
| <i>Search and sustainability</i> |
| 58 Search/search strategies |
| 59 Text search |
| 60 Video search |
| 61 Image search |
| 62 Audio search (+Podcasts) |
| 63 Simulation search (3D models) |
| 64 File management |

| Media subject-related competencies | |
|---|---|
| 65 | Tools |
| <i>Design and teaching principles</i> | |
| 66 | Design principles for Text |
| 67 | Design principles for Video |
| 68 | Design principles images |
| 69 | Design principles audio |
| 70 | Design principles simulations |
| 71 | Video script |
| 72 | Website script |
| 73 | Script learning courses/ learner stories/ storytelling |
| Media development | |
| 74 | Text software |
| 75 | Video software |
| 76 | Image software |
| 77 | Audio software |
| 78 | Simulation software |
| 79 | Video Hardware |
| 80 | Image hardware |
| 81 | Audio hardware |
| 82 | Simulation hardware |
| 83 | Text file format |
| 84 | Image file format |
| 85 | Video file format |
| 86 | Audio format |
| 87 | Simulation format |
| Teaching and learning | |
| <i>Media</i> | |
| 88 | Continuous Media |
| 89 | Websites/CMS |
| 90 | Images |
| 91 | Charts (Abstract imagery) |
| 92 | Dynamic media |
| 93 | Video |
| 94 | Audio (Podcast) |
| 95 | Dynamic visualizations (which simulates different conditions and processes) |
| 96 | Synchronous communication media |
| 97 | Chat |
| 98 | Video conferences |
| 99 | Asynchronous communication media |
| 100 | E-Mail |
| 101 | Forum |
| 102 | Wiki |
| 103 | Hybrid communication media (synchronous and asynchronous) |
| 104 | Google Drive (Text, Tables, Presentations, ...) |
| 105 | Miro |

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| Media subject-related competencies |
| 106 Actionbound |
| <i>Learning management</i> |
| 107 Blended-Learning |
| 108 Flipped Classroom |

Advanced competencies: Digital school-related competencies

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|---|
| Digital school-related competencies |
| <i>Organizing communication & professional cooperation (with learners + parents + extracurricular stakeholders/third parties)</i> |
| 109 Communication strategies |

Advanced competencies: Media subject-related competencies

| |
|--|
| Media subject-related competencies |
| <i>Digital resources</i> |
| 110 Chances and dangers |
| 111 Data ethics |
| 112 Search engines and databases |
| 113 Media script |
| 114 User experience |
| 115 Data format |
| <i>Teaching and learning</i> |
| <i>Learning theory principles & models of instructional design</i> |
| 116 Media theory |
| 117 Potential of media use cases |
| 118 Learning theory |
| 119 Learning motivation and attention |
| <i>Condition analysis (actors & environment)</i> |
| 120 Needs assessment |
| <i>Teaching content</i> |
| 121 Immediate relevance |
| 122 Future relevance |
| 123 Content analysis |
| 124 Content preparation |
| 125 Contextual teaching |
| <i>Teaching objectives</i> |
| 126 Defining learning goals |
| 127 Media subject-related competencies |
| <i>Teaching methods</i> |
| 128 Main criteria for teaching methods |
| <i>Media</i> |
| 129 Media for communication |
| 130 Media for location-based teaching |
| 131 Learning management systems (LMS) |

| Media subject-related competencies |
|---|
| <i>Learning management</i> |
| 132 Classroom management |
| 133 Hybrid learning management |
| 134 Time management |
| 135 Social management |
| 136 Content management |
| <i>Evaluation</i> |
| <i>Learning diagnosis / diagnostics</i> |
| 137 Learning evaluation |
| 138 Learning outcome evaluation |
| 139 Checking of current learning level |
| 140 Qualitative methods |
| 141 Quantitative methods |
| 142 Automated/direct feedback |
| 143 Individual feedback (teacher feedback) |
| 144 Peer feedback |
| <i>Feedback and planing</i> |
| 145 Learner feedback for course improvement |
| 146 Learner progress to adapt teaching strategies |
| <i>Learner guidance</i> |
| <i>Learning prerequisite(s)</i> |
| 147 Individualization |
| 148 Inclusion |
| 149 Prior knowledge of learner |
| 150 Ability to adapt willingness to innovate |
| <i>Learner activation</i> |
| 151 Interest and motivation |
| 152 Peer learning and tutoring support |
| 153 Competency oriented-classes |

Advanced competencies: Media education

| Media education |
|--|
| Application competencies in information technology |
| 154 Framework |

Tagging

Weingarten competency framework, digital competencies, teachers, school-related competencies, management, communication, collaboration, classroom management, media competency, teaching methodology, learning goals, student motivation, student education, digital ethics.

Disclaimer

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