



TUM

ZSK

Centre for Key Competences

TUM SCHOOL OF
ENGINEERING AND DESIGN

OFFERS OF THE ZSK



Dear members of the ED,

Complex issues and open solution spaces increasingly characterize our world. In addition to comprehensive disciplinary expertise, there is also a need for further interdisciplinary programs to develop the talents at the TUM School of Engineering and Design to be able to meet the framework conditions of our environment profitably. As a center for key competencies, we want to contribute and make our services available.

We look forward to working with you!
Your team from the ZSK.

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We are a science- and practice-orientated institution for key competencies at the TUM School of Engineering and Design.


We provide members of the ED with an individual and creative program based on our in-depth knowledge and experience.

Interactive application and active processing of the respective topics play a significant role in our events and reflection on what has been learnt and its application is always encouraged in individual or group exercises.

Centre for Key Competencies

Homepage: <https://www.ed.tum.de/ed/studium/zsk/>

Including Wiki



” ***Integrative and sustainable key competencies - Interdisciplinary teaching at the School of Engineering and Design***

OUR TEAM

We are a team of experienced coordinators and trainers from the social and educational sciences, personnel and organizational psychology.

Focus

The ZSK comprehensively covers the range of contextual competence topics with its courses. The topics are tailored to engineers and their everyday university and work life. The six key areas of content are



PROMOTING INTERACTION

Experience how to act in a solution-orientated manner in conflict situations and apply conversation techniques as the basis for profitable team communication. Acquire skills to manage projects, expand your own network, and apply manners for successful cooperation to work together effectively and purposefully in a team.



STRENGTHENING PERSONALITY

Convince and inspire with your personality - through a confident and authentic demeanor and rhetoric and a reflected knowledge of your identity and your (career) goals. Learn to lead yourself with efficient organization and well-thought-out stress management and strengthen your entrepreneurial and critical thinking.



SHAPING THE FUTURE

Learn strategies in our workshops on how you can use your expertise and creativity for this and how you can successfully develop and realize your innovations. Find out how you can initiate and support change in your environment.



UTILISING DIVERSITY

Dare to look inward, discover what assumptions drive your actions, and learn how to develop an open and appreciative attitude towards others.



MANAGING KNOWLEDGE

Learn how to maintain an overview of the topicality and importance of information and how to assess its significance. Learn how to prepare this knowledge in a way that is appropriate for the target audience to process and present the complex content for knowledge transfer.



ACTING RESPONSIBLY

Discuss how you can deal with ethical issues and make difficult decisions, considering the possible consequences of your actions. Examine your own value system and reflect on it concerning future (management) tasks in your professional life.

ONBOARDING

Arriving in a new life situation brings with it many challenges. Whether it's starting university, moving to another country, or other changes - with the proper support, it's easier! The Centre for Key Competencies offers various programs to help you settle in.



Further information and registration on our homepage.



Key Competencies for starting your studies - Studying successfully

How to successfully start your studies - Self-organization, time management, learning strategies, skills analysis – with these essential tools, you will get the most out of your studies: more time, less stress, and better results.

As a student in the first semester of the Bachelor's degree program, you can take part in the course "Key Competencies for starting your studies". You will meet fellow students in small groups and reflect on essential tips and tricks for everyday university life that you have learned in a series of lectures and an eLearning course. You will be supported by educational experts in developing your key competences for your studies.

Buddy Programm

Have you recently started studying at the School of Engineering and Design and would like to network with other students? Then sign up for the Buddy Program! Here, you will meet students from higher semesters who will support you with their experience and answer your questions about studying. You will meet regularly in small groups and discuss any questions. You can also get to know students from your year or degree program.

In a world characterized by global challenges but also by technological innovations, holistic skills that go beyond technical expertise are required and enable graduates to apply their engineering skills in a comprehensive social context.

The program for acquiring contextual skills at the ED, therefore, integrates interdisciplinary aspects to promote awareness of the interactions of technical interventions with social processes and to be able to derive technical questions from this.

To this end, we co-operate with the TUM School of Social Sciences and Technology. The first series of events on Data & Society takes place in the summer semester.



Date Perspectives

Computational Social Science, Critical Data, Algorithms & Society, Empirical Methods at Scale

Behavioral

Human Behavior, Group Dynamics, Social Movements, Global Dynamics

Regulatory

AI Regulation, Policy Practices, Ethics, Philosophy / Fundamental Rights

Sustainability

Sustainable Transition, Climate Financing, Responsible Innovation, Public Interest Research

Foundations

Programming, Quantitative Methods

CONTEXTUAL COMPETENCE @ SOT



Our soft skills seminars enable you to develop and expand your key competencies.

We offer topics in social skills, methodological skills, and self-competence tailored to your specific life situation.

Our courses help you develop your soft skills in dealing with others and yourself. You can grow personally and increase your employability.

Communication Training

Mastering difficult situations and negotiations successfully

Strengthen Self-awareness

Recognizing and using your potential

Be the Change

How to initiate change and get things moving

Leading and Taking Responsibility

Developing people and teams

Self-management

Coping with stress and strengthening your own resilience

SOFT SKILLS SEMINAR

SCIENTIFIC WORK

Develop your key competencies for good scientific practice!

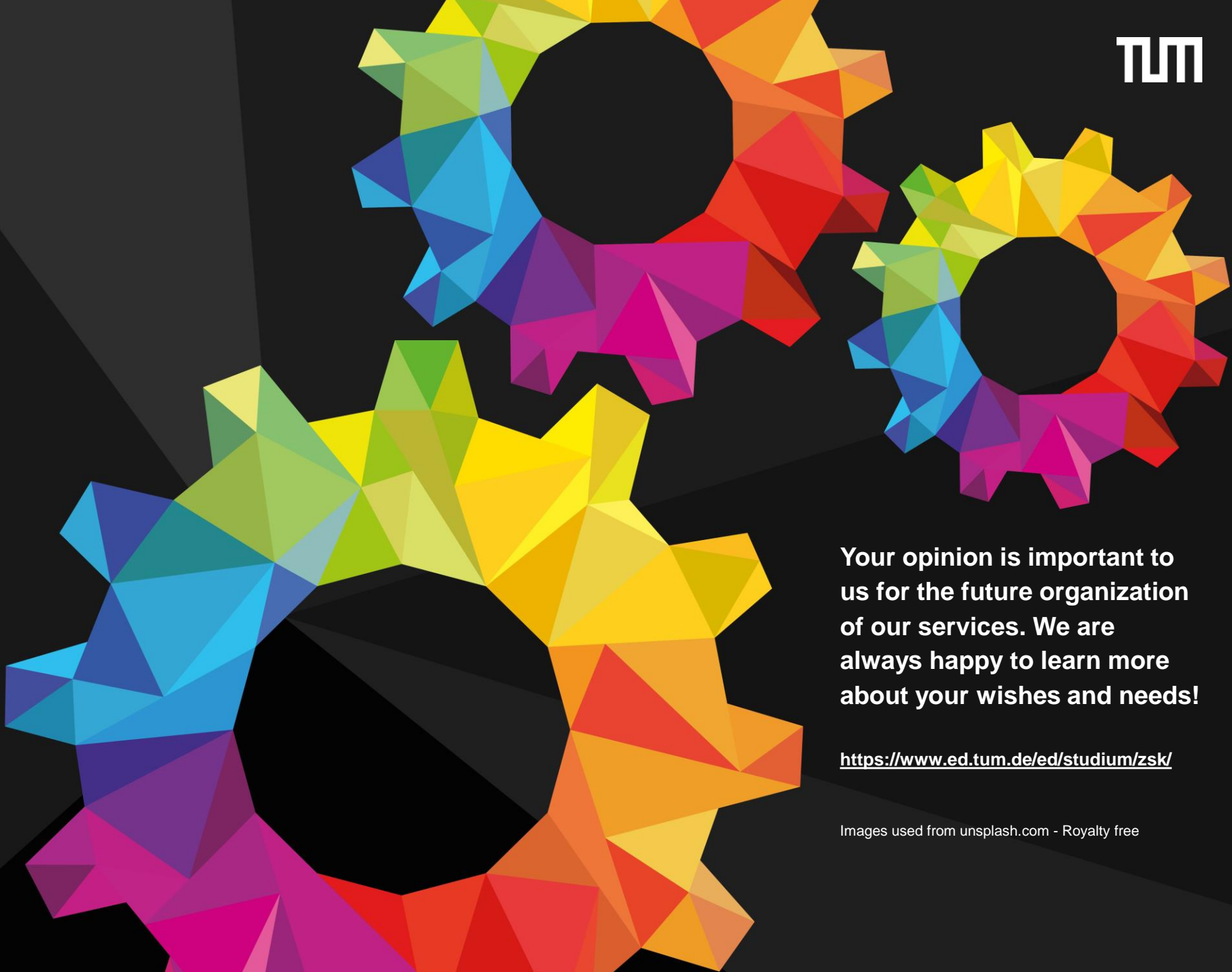
The ability to produce academic work is a core area of academic training. The formats offered by the ZSK range from seminars, lectures, and e-learning to thematic writing workshops.

The portfolio includes the following areas:

- Characteristics and requirements of good scientific practice
- Structure and planning of scientific work and time management
- Experimental design and evaluation
- Scientific writing in German and English
- Literature management, literature research, citation
- Research ideas and dealing with patents
- Presentation of research results
- Dealing with writing and work blocks

Further
information and
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Your opinion is important to us for the future organization of our services. We are always happy to learn more about your wishes and needs!

<https://www.ed.tum.de/ed/studium/zsk/>

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