TUM Master‘s Day

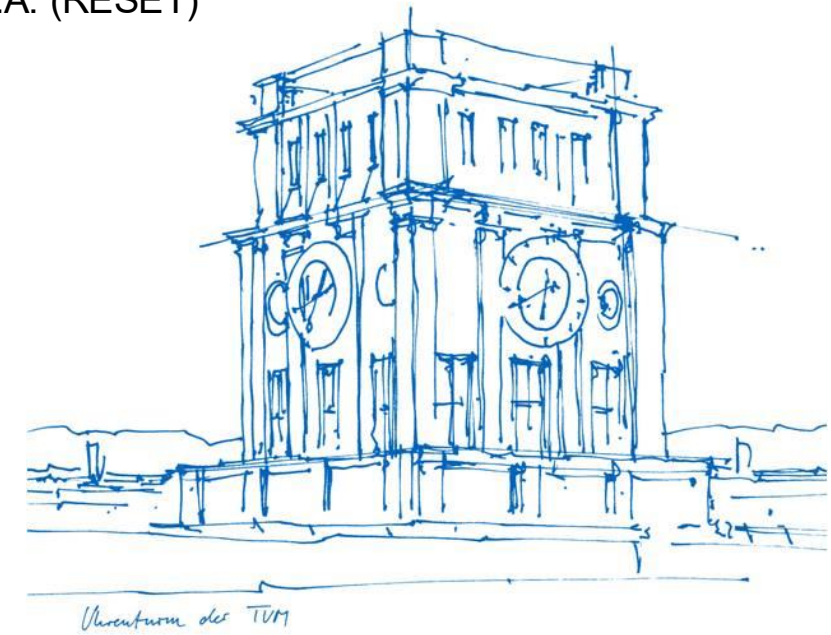
Responsibility in Science, Engineering and Technology M.A. (RESET)

Science and Technology Studies M.A. (STS)

Technische Universität München

TUM School for Social Sciences and Technology

23.03.2026



Agenda

I. Info Session: RESET & STS

1) Highlights
2) RESET
3) STS
4) Career Options

Highlights

- Very good student-teacher ratio: cohort 15-30 students, courses mostly 10-20 students
- Interdisciplinary and international cohorts
- Support: e.g. funding for study trips (RESET) and student initatives, MAXQDA licence
- Special events: e.g. 'Student Spring Gathering'
- (extra-curricular) Going Abroad options
- Opportunities: student assistant jobs, MA thesis calls at the Dept. STS and SOT

Science and Technology Studies (STS)

is an interdisciplinary research field that explores the interactions between science, technology, and society.

Both programs explore the interplay of science, technology (development), politics, and social dynamics.

„Science and Technology Studies“ (M.A. STS) program: greater **focus on the foundations** of science and technology studies as a field of research, the **philosophy and history** of science and technology, **methods of qualitative research** and in-depth exposure to specific research topics.

„Responsibility in Science, Engineering and Technology“ (M.A. RESET): also deals with the above-mentioned topics but approaches them from a **more practice-oriented perspective**, always putting **emphasis** on the question: What does **responsibility** mean in this context?

RESET teaches you how to communicate between disciplinary and institutional boundaries and to address societal responsibilities of the technosciences.

RESET

Responsibility and responsiveness: Focus on the socio-technological dynamics and effects of innovation and research.

- Graduates are able to identify and critically discuss social, economic, political, cultural and legal aspects of science and technology.

An immersive and practice-oriented education: Innovative term structure and hands-on immersive learning.

- Case studies, projects and internship to foster new forms of collaboration across institutions and disciplines.

Intensive academic support: Small course sizes, in-depth discussions and individual support from RESET's teaching staff.

- Support from the **Elite Network of Bavaria**.

International competitiveness: International student groups and projects to prepare you for a global working environment.

- Expert knowledge at the cutting edge of international technoscience research.
- Extensive communication and project management skills.
- Internship and option of doing a semester abroad.

RESET

Semester	Module		Credits
1st	Technology & Society		12
	Immersion Project		10
	Methods		5
	Skill Course		3
2nd	Core Topic		5
	Core Topic		5
	Core Topic		5
	STS - STEM		12
	Skill Course		3
3rd	Internship	Masters Blog	17
		Science School	7
		Practicing Research	6
4th	Master's Thesis		30

Immersion Project

A ‘Datafied’ Future of Urban Mobility? Exploring Responsibility in Data-Driven Mobility Innovation and Governance

- Explored the use of big data and machine learning for urban mobility
- Connected to our department’s work “Munich Cluster for the Future of Mobility in Metropolitan Regions” (MCube)
- Spun out into euMove as TUM-wide interdisciplinary student project

Water Infrastructures and Forest Futures: Nature Contact and Technological Control

- Examined the social, political, and environmental impacts of water management
- Included an excursion to the Bleiloch dam in consultation with agencies involved with water management in Thuringia

Science and Technology Studies conveys empirical research methods and analytical skills that enable students to critically address the social conditions and consequences of contemporary science and technology.

In-depth exposure to interdisciplinary approaches: how to address various social, historical and policy aspects of contemporary developments in science and technology using methods from social sciences, philosophy or the humanities.

- Adressing technoscientific problems in a critical and diagnostic way with a focus on problem-solving
- Conveying reflexive, collaborative and communicative skills.

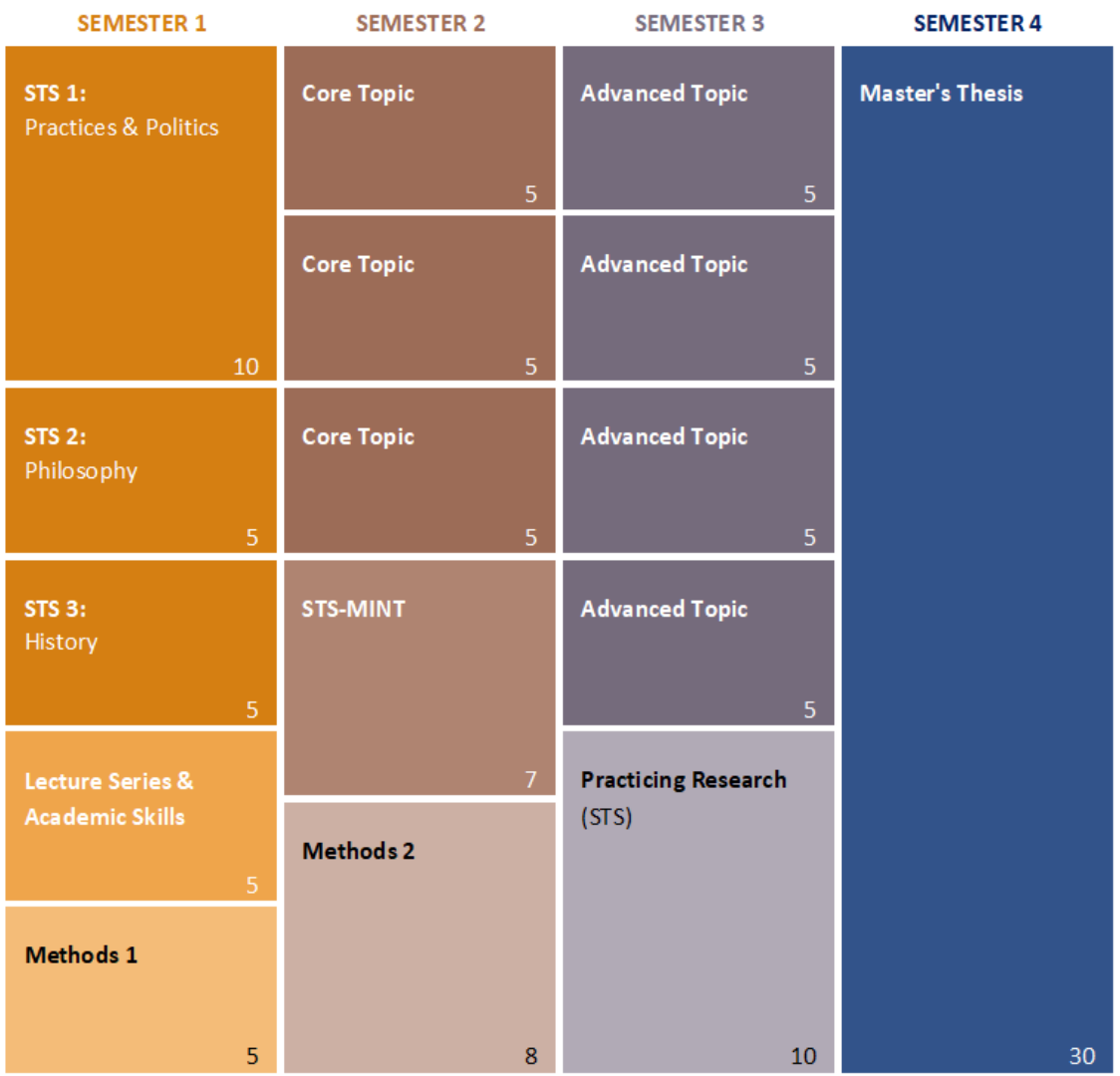
Research orientation and specialization: Specialization in STS research topics early in your studies that allows you to lay foundations for further research in the field.

- Possibility of specialization in the Philosophy of Science and Technology or the History of Science and Technology.

Empirical research methods and analytical skills: Rigorous training in social science research methods.

- Empirical basis to address the conditions and consequences of contemporary science and technology.

Science Technology Society



Core & Advanced Topics

Technoscience & Narrative Cultures

Media & Digital Cultures

Publics & Participation

Theoretical Reflections on Law and Technology

Law and Digitization in Action

Co-construction of Technology & Users

Responsible Research & Innovation

Industries and Innovation

Ethics and Responsibility

Politics & Governance

Knowledge Cultures & Institutions

Risk & Security

Gender & Diversity

NatureCultures & Sustainability

Infrastructures & Design

Biomedicine and Health

Epistemology and Ontology

Information and Society

	RESET	STS
1	Students learn the basics of **qualitative social research**: they are familiarized with specific methods as well as their underlying philosophical assumptions.	
	Practice-oriented learning • Semester-long **immersion project:** apply theories to a current controversial debate in small project groups. • **Module „Technology and Society“:** interactions between science, technology and society in five blocks (politics, economics, law, ethics and media).	Foundations & History of Science and Technology • **Development and approaches of major STS currents:** most important theories, researchers and case studies. • **STS2: Philosophy of Science and Technology** and **STS3: History of Science and Technology** philosophical foundations and historical developments of science and technology.
2	• In-depth examination of **core STS topics:** selection of three core topics in accordance with own interests. • **STEM courses** and analysis of the respective disciplinary knowledge cultures.	
	(Practical) Skills Courses e.g. in moderation, intercultural communication or international project management	Deepen knowledge in **social science methods.**
3	**"Practicing Research":** Develop research questions (RESET) or conduct a full project (STS) as master’s thesis preparation.	
	• **Internship** and with experience sharing in a self-organized mini symposium (the “**Science School**”). • Science communication training in the “**Master’s Blog**” course.	**Four Advanced STS Topics**

Career Paths

M.A. STS

Students are actively encouraged to gain professional experience in internships beyond the requirements of their curriculum during their studies.

- Prepares for further careers in academia and STS research, and to make them internationally competitive applicants in STS and related fields.
- Outside of academia, STS graduates are qualified for careers in numerous areas such as science and technology management, consulting and policy advice, science communication and journalism, science funding and policy

M.A. RESET

The mandatory internship provides valuable insights into future career options.

- Prepares for public and private sector careers by integrating governance, responsibility, responsiveness, precaution, and care into science and technology innovation—from agenda-setting to implementation.
- International qualification for a wide range of career fields within governmental institutions, international organizations, innovative firms (both established companies and start-ups), NGOs, think tanks, consulting and academia.

Focus areas examples: sustainable energy, biotech, healthcare, IoT, big data, and urban infrastructure.

Anna Ackermann
Junior Digital Coordinator @ United Nations Development Programme

» RESET has equipped me with the theoretical and practical framework to contribute to responsible innovation – currently at the UNDP. ***The unique value of RESET is its applicability to all fields of Science and Technology, no matter if its engineering, teaching or material science.*** *It encourages students to take what they bring and reform it. «*

Valérie Novak
Journalist @ Bayrischer Rundfunk

*» **RESET influences my journalistic work on a daily basis.** At the BR I turn research topics from my studies into features – to include all perspectives and the regulatory challenges stems from RESET. «*

Mai Do
Responsible AI Specialist & AI Ethicist @ Airbus

*» **Through RESET I learned to balance competing priorities while maintaining rigorous objectivity**, particularly when evaluating downstream implications of emergent technologies. This foundation has proven invaluable in my work as an AI ethicist, where I regularly translate abstract ethical principles into concrete, implementable policies. «*

Information on Programs & Application: Website M.A. STS & M.A. RESET

Contact: Study Management Team studium.sts@sot.tum.de

Courses of the summer semester will be listed here:

- STS
- RESET

Applications open till 31. May!