



**CHAIR OF BUILDING REALIZATION AND  
ROBOTICS**

**INSTITUTE FOR MEDIA TECHNOLOGY**

**CHAIR OF BUILDING CONSTRUCTION  
AND MATERIAL SCIENCE**

**CHAIR OF ROBOTICS AND EMBEDDED  
SYSTEMS**

**CHAIR OF CONSTRUCTION  
MANAGEMENT SERVICES & REAL  
ESTATE DEVELOPMENT**

For further Information  
please visit: [www.br2.ar.tum.de](http://www.br2.ar.tum.de)  
or please contact: [info@br2.ar.tum.de](mailto:info@br2.ar.tum.de)

**CHAIR OF BUILDING  
REALIZATION AND ROBOTICS**

**PROF. PROF. H. C./SRSTU  
DR.-ING./UNIV.TOKIO THOMAS BOCK**

Arcisstrasse 21 • 80333 München  
<http://www.br2.ar.tum.de>

**INSTITUTE FOR  
MEDIA TECHNOLOGY**

**PROF. DR. ECHEHARD STEINBACH**

Arcisstrasse 21 • 80333 München  
<http://www.lmt.ei.tum.de>

**CHAIR OF BUILDING  
CONSTRUCTION AND  
MATERIAL SCIENCE**

**PROF. DIPL.-ING. FLORIAN MUSSO**

Arcisstrasse 21 • 80333 München  
<http://www.ebb.ar.tum.de>

**CHAIR OF ROBOTICS AND  
EMBEDDED SYSTEMS**

**UNIV.-PROF. DR-ING. HABIL.  
ALOIS KNOLL**

Arcisstrasse 21 • 80333 München  
<http://www6.in.tum.de/>

**CHAIR OF CONSTRUCTION  
MANAGEMENT SERVICES &  
REAL ESTATE DEVELOPMENT**

**UNIV.-PROF. DR-ING.  
JOSEF ZIMMERMANN**

Arcisstrasse 21 • 80333 München  
<http://www.bpm.bv.tum.de>

**(br)<sup>2</sup>**

**TUM Master Course**

**Advanced Construction and Building Technology - Automation, Robotics, Services  
Master of Science (M. Sc.)**





## Master Course Program

The TUM offers its newly established Master Course focusing on automation and robotics in construction and building technologies.

The course looks towards professionals of the construction and building industry, architects and civil engineers, computer scientists, managers and health professionals.

You can increase your competitiveness not just by improving efficiency but also by developing new market opportunities. The course makes you a professional in automation and robotics in construction, services of building technologies and the adaptability of buildings throughout their entire lifespan.

Our design philosophy shows you how to design for rationalization by automation and robotics, how to design for closed up components circulation in order to increase building components' performance,

how to design and redesign real estate for providing services to its tenants and users focusing on assistive geronto-technologies.

- **2-year** full time M. Sc. (4 Semesters, Language: **Engl.**)
- For students which already have a **Bachelor** or **Master** Degree
- **Crossdisciplinary:** Architecture, Computer Science, Electrical-, Mechanical Engineering, Economics, Medicine, Civil Engineering
- Aiming at making students versatile and flexible project leaders able to work in an **international market**
- Study Fee: **500€** /Semester,
- Start: **winter term**

1. SEMESTER Basic Knowledge	2. SEMESTER Projects/ Elective Courses	3. SEMESTER Projects/ Elective Courses	4. SEMESTER Master Thesis
<b>MODUL P 01 pP</b> Preproject Ambient Innovation Robotics AR 6 ECTS	<b>MODUL P 06 iP1</b> Integrated Project 1 AR 9 ECTS	<b>MODUL P 10 iP2</b> Integrated Project 2 AR 9 ECTS	<b>MODUL P 13 MTh</b> Master Thesis
<b>MODUL P 02 Rebo</b> Robotics elective Module Knoll/ Bock 6 ECTS	<b>MODUL P 07 MOI</b> Methodology of Industrialization Musso/ Bock 6 ECTS	<b>MODUL P 11 Inc</b> Incubator Project Implementation (brj)Laboratory Musso/ Bock 6 ECTS	
<b>MODUL P 03 ARC</b> Automation & Robotics in Construction Bock 6 ECTS	<b>MODUL P 04 BSP</b> Building System Performance Bock (Linner) 6 ECTS	<b>MODUL W 12 TUM</b> Free choice from interfac. TUM Course Catalog in coordination with mentors AR & TUM 15 ECTS	
<b>MODUL P 04 BSP</b> Building System Performance Bock (Linner) 6 ECTS	<b>MODUL W 09 TUM</b> Free choice from interfac. TUM Course Catalog in coordination with mentors AR & TUM 9 ECTS		
<b>MODUL P 05 FEM</b> Frontier Engineering & Management Zimmermann(Eber)/Bock 6 ECTS	<b>Summation:</b> 30 ECTS	<b>Summation:</b> 30 ECTS	<b>Summation:</b> 30 ECTS

TUM Mastercourse Matrix

