

1 WINTER SEMESTER
BASICS, URBANISM, BUILDINGS, INFORMATION
30 CP € 4,000

M1 BASICS OF SMART SOLUTIONS ML: Prof. Dr. Belle 6 CP	M2 SMART URBANISM ML: Prof. Dr. Belle 6 CP /	M3 SMART BUILDINGS ML: Prof. Binder 6 CP	M4 SMART INFORMATION MODELLING & AI ML: Prof. Dr.-Ing. Blanco-Vogt 6 CP
1.1 CDD Global Climatic & Demogr. Development Challenges Prof. Dr. Iris Belle 1.5 CP	2.1 SCC Smart City & Smart Region Johannes Schwegler, MBA 1.5 CP	3.1 SAC Smart Architecture Concept Prof. Roland Dieterle 1.5 CP	4.1 SDC Smart Data Components Hamidreza Ostadadibos, M.Sc. 1.5 CP
1.2 SME Sustainable Macroeconomics Prof. Dr. Katharina Gapp-Schmeling 1.5 CP	2.2 STP Smart Town Planning & Land Policy Prof. Dr. Iris Belle 1.5 CP	3.2 SEC Smart Energy Concepts Dipl.-Ing. Cathrin Krumrey 1.5 CP	4.2 GIS Geographic Information Systems Prof. Dr.-Ing. Angela Blanco-Vogt 1.5 CP
1.3 SDC Societal Developments & Challenges DI Ghazal Etrminan 1.5 CP	2.3 SSI Smart Social Infrastructure & Housing Prof. Dr. Iris Belle 1.5 CP	3.3 SET Smart Engineering & Technologies Samuel Meile, M. Eng. 1.5 CP	4.3 CIM City Information Models Dipl.-Ing. Carsten Rösndorf 1.5 CP
1.4 SPM Smart City Parameters & Measuring Dr.-Ing. Hans-Martin Neumann 1.5 CP	2.4 SUD Smart Urban Development Principles & Concepts Dr. Haris Piplas 1.5 CP	3.4 BIM Planning & Building Processes, BIM, Certific. Dipl.-Ing. Peter Scheibstock Maroun Aad, M.Eng. 1.5 CP	4.4 DPS Digital Platforms & Services Jonas Marbeth, M. Sc. Dipl.-Ing. David Hick 1.5 CP

M9.1 CASE STUDY FOCUS: URBANISM, BUILDING & INFORMATION Prof. Dr. Iris Belle, Prof. Dr. Max Haug, Dr.-Ing. Hans-Martin Neumann 6 CP
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2 SUMMER SEMESTER
INFRASTRUCTURE, MANAGEMENT, FINANCE
30 CP € 4,000

M5 SMART ENERGY & MOBILITY ML: Prof. Dr.-Ing. Schmidt 6 CP	M6 SMART RESOURCES & RESILIENCE ML: Prof. Dr.-Ing. Schmidt 6 CP	M7 SMART SUSTAINABLE FINANCE ML: Prof. Dr. Popovic 6 CP	M8 SM. GOVERNANCE, CITIZENS & MGMT ML: Prof. Dr. Belle 6 CP
5.1 SEG ^{IPM} Smart Energy Generation Prof. Dr.-Ing. Benjamin Reuter 1.5 CP	6.1 SWW ^{IPM} Smart Water & Waste Management Jürnjakob Dugge, M. Sc. Dr. Konstantin Dinkler 1.5 CP	7.1 FMI Financial Markets & Institutions Prof. Dr. Tobias Popovic 1.5 CP	8.1 PPG Principles of Public Policy & Governance Felix Bossner, M.A. 1.5 CP
5.2 SGS ^{IPM} Smart Grid Solutions Dr.-Ing. Ahmed Elbaz 1.5 CP	6.2 PPR Pollution Prevention & Recovery Strategies Prof. Dr. Jürgen Breuste 1.5 CP	7.2 SFI Sustainable Finance Prof. Dr. Tobias Popovic 1.5 CP	8.2 PSS Public Services & Public Sector Management Felix Bossner, M.A. 1.5 CP
5.3 SMM ^{IPM} Smart Mobility Strategies & Management Dipl.-Ing. Rebecca Heckmann 1.5 CP	6.3 SUB Smart Urban Biosphere & Habitat (incl. Nutrition) Prof. Dr. Jürgen Breuste 1.5 CP	7.3 IPF Infrastructure & Project Finance Prof. Dr. Tobias Popovic 1.5 CP	8.3 LAM Lean & Agile Management Approaches Prof. Dr. Claus Nesensohn 1.5 CP
5.4 SOM Smart Operations & Maintenance Dipl.-Ing. Axel Kühn Dipl.-Ing. Johannes Winter 1.5 CP	6.4 RSM Resilience Strategies & Measures Dr.-Ing. Nicole Baron 1.5 CP	7.4 DFI Digitalization, Financial Innovation & Technology Prof. Dr. Tobias Popovic 1.5 CP	8.4 LSM Leadership & Stakeholder Management Dr. Irem Ince Keller 1.5 CP

M9.2 CASE STUDY FOCUS: INFRASTRUCTURE, MANAGEMENT & FINANCE Prof. Dr. Max Haug, Dr.-Ing. Hans-Martin Neumann 6 CP
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3 FINAL SEMESTER
MASTER THESIS
30 CP € 2,000

M10 MASTER THESIS ML: Prof. Dr. Belle 30 CP
10.1 ACW Academic Writing & Smart City Literature Prof. Dr. Iris Belle 1.5 CP
10.2 MTP Master Thesis Proposal Dr. Irem Ince Keller 1.5 CP
10.3 MTR Master Thesis Research Prof. Dr. Iris Belle 2 CP
10.4 MTSC Master Thesis Project in Smart City Solutions Various supervisors 23 CP
10.5 MTPA Master Thesis Presentation & Abstract Prof. Dr. Iris Belle 2 CP

ELECTIVES

Students can attend lectures of the Master Programme International Project Management (IPM) to specialize in individual subject. Attendance is extracurricular and does not replace of smart city solutions lectures. Credit points and grades earned in IPM do not count towards the SCS grade. Admission is subject to availability. This does not apply to the mandatory joint courses of Modules 5 and 6.

REMARKS

- > CP : Credit Points
- > ML : Module Leader
- > ^{IPM} Mandatory joint course with the Master Programme International Project Management (International Infrastructure and Technology Management IITM)