

## MAS ETH MTEC Study Plan

Autumn Semester 2023 – Spring Semester 2025

CORE COURSES		Sem	Block	CP	Lecturer
<i>Please complete a minimum of 3 CP in at least 5 of 6 competence areas</i>					
<b>General Management and Human Resource Management</b>					
363-0302-00	Human Resource Management: Leading Teams	2		3	G. Grote
363-0341-00	Introduction to Management	1		3	Z. Zagorac-Uremovic, D. Baschung, J. O'Neil
363-1080-00	Power and Leadership	2		3	P. Schmid, T. Noll
363-0301-00	Work Design and Organizational Change	1		3	N. Bienefeld-Seall
<b>Strategy, Markets and Technology</b>					
363-0387-00	Corporate Sustainability	3		3	V. Hoffmann, J. Meuer, A. Nunez-Jimenez
363-1077-00	Entrepreneurship	2		3	B. Clarysse
365-1097-00	Innovation Management <sup>2</sup>	2	•	2	P. Bubbenzer
363-0403-00	Introduction to Marketing	1		3	P. Bachmann
363-0392-00	Strategic Management	2/3		3	A.-K. Weiser
<b>Information and Operations Management</b>					
363-0421-00	Management of Digital Transformation	1		3	E. Fleisch
363-0445-00	Production and Operations Management	1		3	T. Netland
363-0453-00	Strategic Supply Chain Management	3		3	S. Wagner
363-0425-00	Transformation: Corporate Development and IT	3	•	3	T. Gutzwiller
<b>Quantitative and Qualitative Methods for Solving Complex Problems</b>					
365-1120-00	AI for Executives <sup>2</sup>	2	•	3	J. Zürcher
363-0541-00	Economic Dynamics and Complexity	1		3	F. Schweitzer
363-0305-00	Empirical Methods in Management	3		3	S. Tillmanns
363-1004-00	Operations Research	3		3	S. Bütikofer van Oordt
<b>Micro and Macroeconomics</b>					
363-0515-00	Decisions and Markets	2		3	A. Bommier
363-0575-00	Economic Growth, Cycles and Policy <sup>1</sup>	2		3	H. Gersbach
363-0565-00	Principles of Macroeconomics	1		3	J.-E. Sturm
363-0503-00	Principles of Microeconomics	1		3	M. Filippini
363-0537-00	Resource and Environmental Economics	3		3	L. Bretschger, M. L. Newham
<b>Financial Management</b>					
363-0711-00	Accounting for Managers	1		3	H. Chen
363-0561-00	Climate Economics and Finance	2		3	L. Barrage
363-0723-00	Corporate Finance	3		3	A. Kind
363-0560-00	Financial Management	2		3	to be confirmed

Sem: Semester 1-4 Block: •block course CP: credit points

<sup>1</sup> Course has prerequisites. Please check the Course Catalogue for further information.

<sup>2</sup> MAS MTEC students only.

SKILL-BASED TRAINING (MAS MTEC students only)		Sem	Block	CP	Lecturer
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*Please complete a minimum of 2 courses in the Skill-based Training category*

365-1151-00	Applied Business Ethics: From Individual to Corporate Moral Responsibility <sup>2</sup>	2/4	•	2	B. J. Bergmann, S. Dänzer, T. Emmerling
365-1099-00	Design Thinking: A Human-Centred Approach to Problem Solving <sup>2</sup>	2/3	•	1	D.-B. Salehabadi
365-1111-00	Entrepreneurial Learning: Theory, Practice, and Play <sup>2</sup>	2	•	1	V. He
365-1019-00	Human Resource Management: Skills in Practice <sup>2</sup>	3	•	2	M. Gubler, M. Kolbe
365-1053-00	Innovation, Creativity and Personality Traits <sup>2</sup>	3	•	1	D. Laureiro Martinez
365-1149-00	Introduction to Personal Branding and Storytelling <sup>2</sup>	1/2/3/4	•	1	B. Rübél, P. Geissbühler
365-0347-00	Negotiation Skills <sup>2</sup>	3	•	1	M. Gutmann
365-1092-00	Personal Leadership Skills <sup>2</sup>	2/3	•	2	P. Romann

### ELECTIVE COURSES

#### MAS MTEC Electives (MAS MTEC students only)

365-0881-01	Advanced Project Management: Cases and Coaching <sup>2,4</sup>	4	•	1	D. T. Baumann, T. Haas, M. A. Zoller
365-1085-00	Business Experimentation <sup>2</sup>	2		3	M. Zimmer
365-1086-00	Change Management <sup>2</sup>	2		2	to be confirmed
365-1112-00	Digital Transformation and Value Creation <sup>2</sup>	2	•	1	M. Cooray, R. Duus
365-1143-00	Digital Transformation: Integrating Cloud and Business <sup>2</sup>	3	•	1	R. Halbheer
365-1173-00	Fundamentals of Machine Learning for Executives <sup>2</sup>	2		1	J. Zürcher, T. Motz
365-1181-00	Introduction to Quantum Computing: Current Challenges and Business Insights <sup>2</sup>	1/3	•	1	B. J. Bergmann, P. Kammerlander
365-1083-00	Leading the Technology-Driven Enterprise <sup>1,2</sup>	1/3	•	1	J. O'Neil, D. Röttger
365-1166-00	Lean Production <sup>1,2</sup>	1/3	•	1	T. Netland, R. Lorenz
365-1174-00	Machine Learning for Industrial Applications <sup>2</sup>	2/4	•	1	O. Fink
365-1145-00	Managers' Guide to Investing <sup>2</sup>	3	•	1	S. Zaker
365-1141-00	Platform and Ecosystem Strategies <sup>2</sup>	2/4	•	1	F. Hacklin, M. Wallin
365-1059-00	Practicing Strategy <sup>1,2</sup>	3	•	1	G. von Krogh, T. Gersdorf, C. H. Park
365-0881-00	Project Management Applied <sup>2,4</sup>	2	•	1	D. Ritler
365-1155-00	Project Management: Core Elements for Success and/or Failure <sup>2</sup>	2/4	•	1	J. Behrens
365-1183-00	Reinforcement Learning: Insights and Applications <sup>2</sup>	1/3	•	1	C. Cuchiero, B. J. Bergmann, J. Teichmann
365-1176-00	Resilience - Beyond Risk Management <sup>2</sup>	2/4	•	2	O. Kocsis, B. J. Bergmann
365-1142-00	Understanding Human Behavior - Research and Business Insights <sup>2</sup>	3		1	S. Andraszewicz
365-1148-00	Urban Tech Ecosystems <sup>2</sup>	2/4	•	1	M. Cooray, R. Duus

#### Course Abroad (MAS MTEC students only)

365-1071-00	Course Abroad <sup>2</sup>	4	•	3	MTEC Professor
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#### Further MTEC Electives (Selection) - More options can be found in the MTEC Course Catalogue

363-0861-00	Alliance Advantage - Exploring the Value Creation Potential of Collaborations	1	•	3	C. G. C. Marxt
363-0393-00	Corporate Strategy	3		3	S. Ben-Menahem
363-1070-00	Cyber Security	2		3	S. Frei
363-1153-00	Decentralized Finance and the Future of Money	2		3	B. J. Bergmann, H. Gersbach, R. Wattenhofer
363-1082-00	Enabling Entrepreneurship: From Science to Startup	1		3	A. Sethi
363-1084-00	Entrepreneurial Investments in Sustainability	2	•	3	F. Hashemi
363-1028-00	Entrepreneurial Leadership	1	•	4	Z. Erden Ozkol, S. Brusoni, O. von Dzengelevski, G. von Krogh
363-1122-00	From Entrepreneurial Thinking to Market Relevance - How Startups Scale	2		3	A. Sethi
363-0448-00	Global Operations Strategy	2	•	3	T. Netland, O. Dzengelevski
363-1114-00	Introduction to Risk Modelling and Management	2		3	H. Schernberg, B. J. Bergmann, D. N. Bresch
363-0792-00	Knowledge Management	2	•	1	P. Wolf
363-0887-00	Management Research	2/3	•	1	U. Stettner
363-1060-00	Strategies for Sustainable Business	2	•	2	J. Meuer
363-0389-00	Technology and Innovation Management	3		3	S. Brusoni, A. Zeijen
363-0790-00	Technology Entrepreneurship	1		2	F. Hacklin

#### Extrdepartmental Courses

You can earn at most 6 CP from other ETH departments. Courses at institutions other than ETH are not recognised. Prior to signing up for these courses you have to get approval from the Student Services (mtec-mas-student@ethz.ch). No credit points will be awarded for language courses.

### MASTER'S THESIS

*The Master's thesis is written in collaboration with an industrial partner, organisation or institution - either on a full-time (10 weeks) or part-time basis (16 weeks).*

365-1170-00	Epigeum's Avoiding Plagiarism Online Course <sup>3</sup>	1		0	-----
365-0899-00	Master's thesis <sup>1,3</sup>	4		12	MTEC professors

Sem: Semester 1-4 Block: ●block course CP: credit points

<sup>1</sup> Course has prerequisites. Please check the Course Catalogue for further information.

<sup>2</sup> MAS MTEC students only.

<sup>3</sup> You must have passed the preparation course in your first semester before you can register for a Master's thesis: "Epigeum's Avoiding Plagiarism Online Course".

<sup>4</sup> Only one of these courses in Project Management can be taken during the MAS MTEC Studies.

MAS MTEC regulations specify a min. of 60 CP (max. 65 CP) for the completion of the degree: 48 CP (max. 53 CP) for lecture courses and 12 CP for the Master's thesis.