

Management Technology (MT)

Curriculum Outline

The Management Technology (MT) Program covers general basic courses and three common foundations required for management technology, namely, fundamentals of technology, information technology, and general management. After completing the second year of study, students choose to be specialized in one of the academic options offered by the MT Program. (The list of academic options to be offered to students is left to the discretion of SIIT.)

Examples of academic options are as follows:

Option 1: Business Analytics/Management Information Systems (MIS)

Option 2: Supply Chain Management (SCM)

After completing their third year of study, students choose a study track based on their capability. These study tracks include: (1) Senior Project Track, (2) Foreign Exchange Track, and (3) Extended Management Training Track. For more details on the academic options and study tracks, consult the MT Program Coordinator.

Structure and Components

1. General Basic Courses	30 Credits
1.1 Part I	21 Credits
1.1.1 Social Sciences	6 Credits
1.1.2 Humanities	3 Credits
1.1.3 Science and Mathematics	3 Credits
1.1.4 Languages	9 Credits
1.2 Part II	9 Credits
2. Core Courses	114 Credits
2.1 Compulsory Courses	77 Credits
2.2 Compulsory Elective Courses	37 Credits
3. Free Elective Courses	6 Credits
Total	150 Credits

Details of the Curriculum

1. General Basic Courses	30 Credits
1.1 Part I	21 Credits
1.1.1 Social Sciences (2 courses) TU100 TU101	6 Credits
1.1.2 Humanities (1 course) TU102	3 Credits
1.1.3 Science and Mathematics (1 course) TU103	3 Credits
1.1.4 Languages (3 courses) TU104 TU105 TU106	9 Credits
1.2 Part II (3 courses) GTS133 GTS202 ITS100	9 Credits
2. Core Courses	114 Credits
2.1 Compulsory Courses	77 Credits
2.1.1 Science and Mathematics (6 courses) GTS111 GTS112 GTS121 GTS122 GTS212 GTS213	18 Credits
2.1.2 Fundamental of Technology (6 courses) GTS303 MTS231 MTS235 MTS254 MTS370 MTS394	17 Credits
2.1.3 Information Technology (5 courses) MTS280 MTS381 MTS382 MTS383 MTS487	15 Credits
2.1.4 General Management (9 courses) MTS213 MTS214 MTS258 MTS312 MTS313 MTS314 MTS315 MTS412 MTS415	27 Credits
2.2 Compulsory Elective Courses	37 Credits
2.2.1 Special Study	6 Credits
1) Senior Project Track (2 courses) MTS301 MTS404	
2) Foreign Exchange Track (3 courses) MTS301 MTS491 MTS495	
3) Extended Training Track (1 course) MTS302	
2.2.2 Option Courses	31 Credits
1) Option I: Business Analytics/Management Information Systems (11 courses) MTS386 MTS387 MTS388 MTS389 MTS403 MTS455 MTS483 MTS484 MTS488 MTSxxx MTSxxx <i>(Select 6 credits from the list of MT Technical Elective course)</i>	
2) Option II: Supply Chain Management (11 courses) MTS232 MTS233 MTS331 MTS335 MTS337 MTS339 MTS340 MTS351 MTS403 MTS481 MTSxxx <i>(Select 3 credits from the list of MT Technical Elective course)</i>	
MT Technical Elective courses MTS316 MTS317 MTS318 MTS319 MTS320 MTS338 MTS339 MTS342 MTS343 MTS371 MTS395 MTS396 MTS397 MTS451 MTS455 MTS486 MTS489	
3. Free Elective Courses	6 Credits
Students may choose any free elective courses (not less than 6 credits in total) offered by SIIT or TU, including general basic courses, except:	
1. General basic courses in Science and Mathematics.	
2. General basic TU courses.	
3. Courses with contents similar to those of other courses in the curriculum already taken by the students.	

Total Credit Requirement

150 Credits

MT Curriculum : 150 Credits

First Year

Semester I

GTS121	General Science I	3(3-0-6)
GTS122	General Science II	3(3-0-6)
GTS133	Environmental Studies	3(3-0-6)
ITS100	Introduction to Computers and Programming	3(2-3-4)
TU102	Social Life Skills	3(3-0-6)
TU104	Critical Thinking, Reading, and Writing	3(3-0-6)
TU106	Creativity and Communication	3(3-0-6)
Sub-Total		21(20-3-40)

Semester II

GTS111	Probability for Technologists	3(3-0-6)
GTS112	Principles of Linear Algebra	3(3-0-6)
MTS280	Introduction of Algorithms and Object Oriented Programming	3(2-2-5)
TU100	Civic Engagement	3(3-0-6)
TU101	Thailand, ASEAN, and the World	3(3-0-6)
TU103	Life and Sustainability	3(3-0-6)
TU105	Communication Skills in English	3(3-0-6)
Sub-Total		21(20-2-41)

Second Year

Semester I

GTS202	English Language Structures	3(3-0-6)
GTS212	Calculus for Technologists I	3(3-0-6)
MTS213	Principles of Business and Management	3(3-0-6)
MTS214	Business Law	3(3-0-6)
MTS231	Statistical Methods for Managers	3(3-0-6)
MTS254	Introduction to Management Science	3(3-0-6)
MTS258	Economics for Technologists	3(3-0-6)
Sub-Total		21(21-0-42)

Semester II

GTS213	Calculus for Technologists II	3(3-0-6)
GTS303	Communications in Business	2(2-1-3)
MTS235	Statistics for Data Science and Empirical Study	3(2-2-5)
MTS312	Principles of Marketing	3(3-0-6)
MTS313	Organizational Behavior	3(3-0-6)
MTS315	Fundamentals of Financial and Managerial Accounting	3(3-0-6)
MTS382	Database Systems and Applications	3(3-0-6)
Sub-Total		20(19-3-38)

Third Year

Semester I

MTS370	Applied Business Analytics and Optimization for Decision Making	3(2-2-5)
MTS381	Business Information Systems	3(3-0-6)
MTS412	Business Finance	3(3-0-6)

Option I: Business Analytics/Management Information Systems (MIS)

MTS386	Distributed and Collaborative Computing	3(3-0-6)
MTSxxx	Technical Elective	3(x-x-x)
MTSxxx	Technical Elective	3(x-x-x)
Sub-Total		18(x-x-x)

Option II: Supply Chain Management (SCM)

MTS232	Production and Operations Management	3(3-0-6)
MTS481	Business Process Simulation	3(3-0-6)
MTSxxx	Technical Elective	3(x-x-x)
Sub-Total		18(x-x-x)

Semester II

MTS314	International Trade and Business	3(3-0-6)
MTS394	Introduction to Research Methodology in Management Technology	3(3-0-6)
MTS487	Business Intelligence and Analytics	3(3-0-6)

Option I: Business Analytics/Management Information Systems (MIS)

MTS387	Business Data Communications and Networking	3(3-0-6)
MTS388	Business Information Systems Analysis	3(3-0-6)
MTS389	Application Programming for Technologists	3(3-0-6)
MTS455	Business Process Management	3(3-0-6)
Sub-Total		21(21-0-42)

Option II: Supply Chain Management (SCM)

MTS233	Introduction to Supply Chain Management	3(3-0-6)
MTS331	Economic Decision Analysis	3(3-0-6)
MTS335	Enterprise Planning and Control Systems	3(3-0-6)
MTS351	Management Systems Optimization	3(3-0-6)
Sub-Total		21(21-0-42)

Summer

Select Senior Project Track, Foreign Exchange Track, or Extended Training Track.

1. Senior Project Track and Foreign Exchange Track

MTS301	Management Technology Training	1(0-40-0)
Sub-Total		1(0-40-0)

2. Extended Training Track

XXXXX	Free Elective	3(x-x-x)
Sub-Total		3(x-x-x)

Fourth Year

Semester I

MTS383	E-Business	3(3-0-6)
MTS403	Management Technology Seminar	1(0-3-0)
MTS415	Strategic Management	3(3-0-6)
XXXXX	Free Elective	3(x-x-x)

Option I: Business Analytics/Management Information Systems (MIS)

MTS483	Information Systems Implementation	3(3-0-6)
MTS484	Intelligent Systems and Machine Learning for Business	3(3-0-6)
MTS488	Principles of Data Warehousing and Data Mining	3(3-0-6)
Sub-Total		19(x-x-x)

Option II: Supply Chain Management (SCM)

MTS337	Transportation, Warehouse and Logistics Management	3(3-0-6)
MTS339	Strategic Sourcing and Supply Management	3(3-0-6)
MTS340	Introduction to Inventory Management	3(3-0-6)
Sub-Total		19(x-x-x)

Semester II

1) Senior Project Track

MTS404	Management Technology Project	5(0-15-0)
XXXXX	Free Elective	3(x-x-x)
Sub-Total		8(x-x-x)

2) Foreign Exchange Track

MTS491	Special Study in Management Technology I	3(3-0-6)
MTS495	Special Study in Management Technology III	2(2-0-4)
XXXXX	Free Elective	3(x-x-x)
Sub-Total		8(x-x-x)

3) Extended Training Track

MTS302	Extended Management Technology Training	6(0-40-0)
Sub-Total		6(0-40-0)