

# Management Technology (MT)

## Curriculum Outline

The Management Technology (MT) Program covers general basic courses and three common foundations required for management technology, namely fundamental of technology, information technology, and general management. After completing the second year of the study, students will be allowed to 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: Management Information Systems (MIS)/Services Science, Management and Engineering (SSME)

Option 2: Supply Chain Management (SCM)

After completing their third year of study, students are allowed to 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 Program Coordinator.

## Structure and Components

<b>1. General Basic Courses</b>	<b>36 Credits</b>
1.1 Part I	21 Credits
1.1.1 Humanities	2 Credits
1.1.2 Social Sciences	5 Credits
1.1.3 Languages	9 Credits
1.1.4 Science and Mathematics	5 Credits
1.2 Part II	15 Credits
<b>2. Core Courses</b>	<b>108 Credits</b>
2.1 Compulsory Courses	74 Credits
2.2 Compulsory Elective Courses	34 Credits
<b>3. Free Elective Courses</b>	<b>6 Credits</b>
<b>Total</b>	<b><u>150 Credits</u></b>

## Details of the Curriculum

<b>1. General Basic Courses</b>	<b>36 Credits</b>
1.1 Part I	21 Credits
1.1.1 Humanities (1 course)	2 Credits
TU110	
1.1.2 Social Sciences (2 courses)	5 Credits
TU100 TU120	
1.1.3 Languages (3 courses)	9 Credits
EL171 EL172 TU140	
1.1.4 Science and Mathematics (2 courses)	5 Credits
ITS100 TU130	
1.2 Part II (5 courses)	15 Credits
EC210 GTS101 GTS133	
GTS202 GTS231	
<b>2. Core Courses</b>	<b>108 Credits</b>
2.1 Compulsory Courses	74 Credits
2.1.1 Science and Mathematics (6 courses)	18 Credits
GTS111 GTS112 GTS121 GTS122	
GTS212 GTS213	
2.1.2 Fundamental of Technology (6 courses)	17 Credits
GTS303 MTS231 MTS251	
MTS254 MTS384 MTS394	
2.1.3 Information Technology (5 courses)	15 Credits
ITS101 MTS381 MTS382	
MTS383 MTS482	
2.1.4 General Management (8 courses)	24 Credits
MTS211 MTS212 MTS311 MTS312	
MTS313 MTS314 MTS411 MTS412	
2.2 Compulsory Elective Courses	34 Credits
2.2.1 Special Study	6 Credits
1) <b>Senior Project Track</b> (2 courses)	
MTS301 MTS404	
2) <b>Foreign Exchange Track</b> (3 courses)	
MTS301 MTS491 MTS492	
3) <b>Extended Management Training Track</b> (1 course)	
MTS302	
2.2.2 Option Courses	28 Credits
1) <b>Option1: Management Information Systems (MIS)/Services Science, Management and Engineering (SSME)</b> (10 courses)	
MTS386 MTS387 MTS388 MTS389	
MTS403 MTS451 MTS455 MTS483	
MTS484 MTS485	
2) <b>Option 2: Supply Chain Management</b> (10 courses)	
MTS232 MTS233 MTS331 MTS335	
MTS337 MTS340 MTS351 MTS403	
MTS455 MTS481	
<b>3. Free Elective Courses</b>	<b>6 Credits</b>
Select any courses offered by the university, except basic courses.	
XXXxxx	
<b>Total Credit Requirement</b>	<b><u>150 Credits</u></b>

## MT Curriculum : 150 Credits

### Course Credits (lecture-practice-self study hours)

#### First Year

##### Semester I

EL171	English Course II	3(3-0-6)
GTS101	Skills Development for Technical Studies	3(3-0-6)
GTS111	Mathematical Analysis for Management Science	3(3-0-6)
GTS121	General Science I	3(3-0-6)
GTS133	Environmental Studies	3(2-2-5)
ITS100	Introduction to Computers and Programming	3(2-3-4)
TU140	Thai Studies	3(3-0-6)
	<b>Sub-Total</b>	<b>21(19-5-39)</b>

##### Semester II

EC210	Introductory Economics	3(3-0-6)
EL172	English Course III	3(3-0-6)
GTS112	Linear Algebra	3(3-0-6)
GTS122	General Science II	3(3-0-6)
ITS101	Programming and Algorithms	3(3-0-6)
TU100	Civic Education	3(3-0-6)
TU130	Integrated Sciences and Technology	2(2-0-4)
	<b>Sub-Total</b>	<b>20(20-0-40)</b>

#### Second Year

##### Semester I

GTS202	English Language Structures	3(3-0-6)
GTS212	Calculus for Technologists I	3(3-0-6)
MTS211	Principles of Business	3(3-0-6)
MTS231	Statistical Methods for Managers	3(3-0-6)
MTS254	Introduction to Management Science	3(3-0-6)
MTS384	Information Systems Software	3(3-0-6)
TU110	Integrated Humanities	2(2-0-4)
	<b>Sub-Total</b>	<b>20(20-0-40)</b>

##### Semester II

GTS213	Calculus for Technologists II	3(3-0-6)
GTS231	Law and Technology	3(3-0-6)
GTS303	Communications in Business	2(2-1-3)
MTS212	Principles of Management	3(3-0-6)
MTS251	Economics for Business and Management	3(3-0-6)
MTS311	Fundamental Financial Accounting	3(3-0-6)
TU120	Integrated Social Sciences	2(2-0-4)
	<b>Sub-Total</b>	<b>19(19-1-37)</b>

#### Third Year

##### Semester I

MTS312	Principles of Marketing	3(3-0-6)
MTS313	Organizational Behavior	3(3-0-6)
MTS382	Database Systems and Applications	3(3-0-6)
MTS394	Introduction to Research Methodology in Management Technology	3(3-0-6)
MTS411	Management Accounting	3(3-0-6)

##### **Option 1: Management Information Systems (MIS)/ Services Science, Management and Engineering (SSME)**

MTS386	Distributed and Collaborative Computing	3(3-0-6)
MTS451	Project Management	3(3-0-6)
	<b>Sub-Total</b>	<b>21(21-0-42)</b>

##### **Option 2: Supply Chain Management**

MTS232	Production and Operations Management	3(3-0-6)
MTS455	Business Process Management	3(3-0-6)
	<b>Sub-Total</b>	<b>21(21-0-42)</b>

### Course Credits (lecture-practice-self study hours)

#### Semester II

MTS314	International Trade and Business	3(3-0-6)
MTS381	Business Information Systems	3(3-0-6)
MTS412	Business Finance	3(3-0-6)

##### **Option 1: Management Information Systems (MIS)/ Services Science, Management and Engineering (SSME)**

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)
	<b>Sub-Total</b>	<b>21(21-0-42)</b>

##### **Option 2: Supply Chain Management**

MTS233	Introduction to Supply Chain Management	3(3-0-6)
MTS331	Economic Decision Analysis	3(3-0-6)
MTS351	Management Systems Optimization	3(3-0-6)
MTS481	Business Process Simulation	3(3-0-6)
	<b>Sub-Total</b>	<b>21(21-0-42)</b>

#### Summer

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

##### **1. Senior Project Track and Foreign Exchange Track**

MTS301	Management Technology Training	0(0-0-0)
	<b>Sub-Total</b>	<b>0(0-0-0)</b>

##### **2. Extended Management Training Track**

XXXxxx	Free Elective	3(x-x-x)
	<b>Sub-Total</b>	<b>3(x-x-x)</b>

#### Fourth Year

##### Semester I

MTS383	E-Business	3(3-0-6)
MTS403	Management Technology Seminar	1(0-3-0)
MTS482	Principles of Decision Support Systems	3(3-0-6)
XXXxxx	Free Elective	3(x-x-x)

##### **Option 1: Management Information Systems (MIS)/ Services Science, Management and Engineering (SSME)**

MTS483	Information Systems Implementation	3(3-0-6)
MTS484	Intelligent Systems for Business	3(3-0-6)
MTS485	Business Intelligence Technologies and Applications	3(3-0-6)
	<b>Sub-Total</b>	<b>19(x-x-x)</b>

##### **Option 2: Supply Chain Management**

MTS335	Enterprise Planning and Control Systems	3(3-0-6)
MTS337	Transportation and Logistics Management	3(3-0-6)
MTS340	Introduction to Inventory Management	3(3-0-6)
	<b>Sub-Total</b>	<b>19(x-x-x)</b>

##### Semester II

##### **1) Senior Project Track**

MTS404	Management Technology Project	6(0-18-0)
XXXxxx	Free Elective	3(x-x-x)
	<b>Sub-Total</b>	<b>9(x-x-x)</b>

##### **2) Foreign Exchange Track**

MTS491	Special Study in Management Technology I	3(3-0-6)
MTS492	Special Study in Management Technology II	3(3-0-6)
XXXxxx	Free Elective	3(x-x-x)
	<b>Sub-Total</b>	<b>9(x-x-x)</b>

##### **3) Extended Management Training Track**

MTS302	Extended Management Technology Training	6(0-40-0)
	<b>Sub-Total</b>	<b>6(0-40-0)</b>