

SolBridge International School of Business

Master in Management & Technology 2021 Curriculum

Introduction and Program Objective

The Master in Management & Technology (MIMT) program is designed to meet recent graduates regardless if their interdisciplinary background had an introduction to technology or if they are rooted in pure management studies. Students will be equally prepared to reach the same goal: to become a skilled business leader with a profound understanding of technical knowledge.

The program is divided into two main stages; first, core courses with fundamental business concepts while the second stage is for electives balancing advanced management and technology courses. The curriculum is structured to provide a unique blend of strong conceptual foundations and practical skills. The curriculum allows the student to become a well-balanced general manager equipped with technical and managerial competencies. This document describes the structure of the SolBridge MIMT program, curricular requirements for graduation and a list of the core and elective courses offered in the program.

Program Overview

This is a 22-month program accepting two intakes: March and September. MIMT students are required to complete a total of forty-five (45) credit hours, comprising 21 credit hours for core and 24 for electives. From those electives, at least twelve (12) credits must be taken from technology courses.

For the first academic year, the number of core courses taken must complete 21 credit hours, while international immersion (3 credits) will be offered as elective during the second intersession. During the second academic year, students will be provided various options for electives while internship (3 credits) and capstone (3 credits) will be required for graduation.

Potential candidates: Recent undergrad graduates with the desire to gain general knowledge about management but with a technological approach.

Graduation Requirements:

- Curricular: 45 credits (21 for core/ 24 for electives – at least 12 for tech electives), International immersion, Internship, Capstone Project
- Non-curricular: First year seminar, Business ethics, Korean language*
* Students should submit official score of Topik with 4 level to be qualified for graduation, or should take all of Korean classes (extra-curricular/ with approx. 400 hours/ pass or fail).

Admission Requirements:

- Work experience: no work experience required
- Academic transcript with a CGPA of C+ or higher
- English proficiency: IELTS 6.0 or its equivalent
- GMAT/ GRE (For those who do not have official scores internal admission test will be offered)
- Personal Essay (Handwritten) & Video Essay

CURRICULUM

Students can identify the courses they need to take as requirements from the tables here. They can also identify a list of the elective classes offered. The overall program structure is followed by tables identifying the contents of each curriculum component.

Students are strongly advised to read course descriptions, identify pre-requisites and plan the sequence of their progress through the program. They may consult their mentors and faculty members in such planning. Students must also note that not all core courses and electives will be offered every semester. This point must be taken into account during program planning.

PROGRAM STRUCTURE

Curricular Component	Number of Required Credits	Remarks
1. Core	21 Credits	<ol style="list-style-type: none"> 1. Students are required to take 1) Managerial Skills, 2) Accounting & Decision Making, 3) Marketing Management, during their first semester. 2. Students are required to take “Field Trip in Korea” during their first intersectional semester (Summer 2021). 3. Students are required to take 1) Business Economics, 2) Operations Management, and 3) Financial Management, during their second regular semester (Fall 2021).
2. Electives	24 Credits	<ol style="list-style-type: none"> 1. Students must take at least twelve (12) out of twenty-four (24) credits from Tech Electives in order to graduate. 2. Students will be required to have an international immersion worth of three (3) credits on their second intersectional semester. 3. Students are required to take from nine (9) to ten (10) credits in their third regular semester. 4. Students are required to take three (3) credits from Internship experience in their third intersectional semester. 5. Students are required to make a Capstone Project worth of three (3) credits in addition of five (5) to six (6) credits in their 4th regular semester.
Total	45 Credits	

PROGRAM AT a GLANCE

		Year 1				Year 2			
		R 1/ 15 Weeks	I 1	R 2/ 15 Weeks	I 2	R 3 / 15 Weeks	I 3	R 4/ 15 Weeks	N/A
Curricular	Core (5 weeks per module)	9 credits	3 credits/ Field Trip in Korea	9 credits					
	Electives (3 weeks per module)				3 credits/ Int'l immersion	9~10 credits in electives	3 credits/ Internship	3 credits/ Capstone & 5~6 credits in electives	

Curriculum Map					
Required Credits: 45					
First Year					
Category	Course Title	Credit	Category	Course Title	Credit
Core	Managerial Skills	3	Core	Operations Management	3
Core	Accounting & Decision Making	3	Core	Financial Management	3
Core	Marketing Management	3	Core	Business Economics	3
Summer/ Winter semesters					
Category	Course Title	Credit	Category	Course Title	Credit
Core	Field Study in Korea	3	Elective	International Immersion	3

Second Year					
Category	Course Title	Credit	Category	Course Title	Credit
Electives (9~10 credits)			Elective	Capstone Project	3
			Electives (5~6 credits)		
Summer/ Winter semesters					
Category	Course Title	Credit	Category	Course Title	Credit
Elective	Internship	3	N/A		

COURSE DESCRIPTIONS

MASTER IN MANAGEMENT & TECHNOLOGY CORE COURSES

BUS **Managerial Skills**

503

Prerequisites: **None**

This course introduces the student to the basic skills for managing people and organizations as well as how to understand different backgrounds of different people so that they can communicate each other. The course deals with motivation, individual and group decision-making, conflict, power and politics, leadership, job design, performance maintenance, organizational environment, organization structure and design, and emerging trends and challenges.

Credit Hours:	3
Course Delivery:	Classroom
Group:	Core

FIN **Accounting & Decision Making**

500

Prerequisites: **None**

This course is the accumulation, analysis and presentation of a business enterprise's relevant financial data for creditors, investors, and other external decision makers.

Credit Hours:	3
Course Delivery:	Classroom
Group:	Core

MKT **Marketing Management**

500

Prerequisites: **None**

The course introduces marketing management theories and concepts involving in the analysis of marketing environment, planning and implementation of marketing programs (product, price, place and promotion) and marketing strategies to attract, satisfy, and retain customers. The course enables students to develop marketing strategies and framework with moral, socially responsible and ethical consideration.

Credit Hours:	3
Course Delivery:	Classroom
Group:	Core

BUS **Operations Management**

508

Prerequisites: **None**

This course has two aims. Firstly, it familiarizes the students with the operations management discipline, i.e. major topics, terminology, methodologies and tools. Secondly, students will apply quantitative and statistical techniques for the solution of the challenges faced by the operations manager.

Credit Hours:	3
Course Delivery:	Classroom
Group:	Core

FIN **Financial Management****501**Prerequisites: **None**

This course is an introduction to business finance, corporate financial management and investments. Students gain an understanding of tools and frameworks necessary to analyze financial decisions based on principles of modern financial theory.

Credit Hours: 3

Course Delivery: Classroom

Group: Core**BUS** **Business Economics****509**Prerequisites: **None**

The course introduces the principles of economics, including both microeconomics and macroeconomics, with a special focus on the applications of these principles in business activities. Topics to be covered include: consumer theory, producer theory, partial equilibrium theory, general equilibrium theory, game theory, information economics, business cycle analysis, economic growth theory, fiscal policy and monetary policy analysis.

Credit Hours: 3

Course Delivery: Classroom

Group: Core**TBD** **Field Study in Korea**Prerequisites: **None**

This course focuses on developing our students' Global Perspective and Korean Expertise. Students must be aware of the impact of Korean Culture on managing in and across various business types and segments in the Korean Market. During this course, students will visit business sites to gain real experiences and try to solve business issues guided by hosting companies.

Credit Hours: 3

Course Delivery: Classroom

Group: Core

MASTER IN MANAGEMENT & TECHNOLOGY ELECTIVE COURSES

TBD

International Immersion

Prerequisites: **None**

Through this course, students can have 2 options; 1) to study as exchange students at one of Solbridge's partner universities around the world or 2) to conduct self-development study by visiting international organizations to find potential issues and to suggest solutions.

Credit Hours: 3

Course Delivery: Classroom

Group: Elective

**BUS
611**

Strategic Management

Prerequisites: **None**

Firms gain competitive advantage through superior strategies. This course provides the foundation for the creation of business and corporate strategies for competitive advantage. Students will learn industry and environmental analysis, and the frameworks and tools needed to devise the firm's strategy. The course integrates the core knowledge from functional disciplines for the formulation of firm strategy.

Credit Hours: 3

Course Delivery: Classroom

Group: Elective

**MIB
601**

International Business in Asia

Prerequisites: **None**

The course provides an overview of the means of conducting international business. The course will explore the effects of social, political and economic systems across the globe on the conduct of international business. The course also deals with theoretical frameworks explaining international business, the emergence of institutions and trading blocs, and their impact on international business with a focus on Asia. Further, This course will help managers understand core differences and similarities in management practices across China, India, Japan, Taiwan, Korea and the ASEAN block of nations. Students will also learn the appropriate management practices and behaviors in these major economic blocks of Asia so that they can adapt to the context.

Credit Hours: 3

Course Delivery: Classroom

Group: Elective

**INF
500**

Management Information Systems

Prerequisites: **None**

Information Technology (IT) has become a vital part of the operations and management of organizations of every kind and size. Increasingly, the successful manager is the one who knows how to take advantage of this situation by deploying IT in the most effective manner. This course covers the general structure of Information Technology applications and their use. It also delves into the different kinds of information systems that managers are likely to encounter and investigates how to make best use of these systems.

Credit Hours: 3

Course Delivery: Classroom

Group: Elective

**MIB
605B**

Global Strategic Management

Prerequisites: **None**

This course will focus on the strategic management in the global markets. It will examine the strategies adopted by firms in response to environmental differences and the success of these strategies. Firms gain global competitive advantage through superior strategies. This course provides the advanced knowledge for the creation of business and corporate strategies for competitive advantage in the global markets. Students will learn industry and environmental analysis, and the frameworks and tools needed to devise the firm's strategy. The course integrates the core knowledge from functional disciplines for the formulation of firm strategy in the global markets.

Credit Hours:	3
Course Delivery:	Classroom
Group:	Elective

**MIB
616**

Special Topics in International Business

Prerequisites: **None**

This course provides the student with an understanding of various aspects of the International Business. Students will learn about management, business, marketing, and strategies in the international markets. Students will acquire in-depth knowledge about the management of the MNC, and the various concepts and analytical frameworks needed to manage the MNC for sustainable competitive advantage.

Credit Hours:	3
Course Delivery:	Classroom
Group:	Elective

TBD

Capstone Project

Prerequisites: **None**

This course is intended to engage students in a real-world business consulting project. This course serves as a bridge between classroom material and practical application. Students apply their previously learned material from the curriculum to craft a comprehensive, data-informed business strategy.

Credit Hours:	3
Course Delivery:	Classroom
Group:	Elective

TBD

Doing Business in Korea

Prerequisites: **None**

This course is designed to engage and expose students to Korean Business & Culture. It is a practical course to raise awareness, knowledge & insights about business culture in Korea. Given this, students will be able to gain appreciation & understanding in to Korean business culture; thus enhancing your development of cross-cultural & international management skills.

Credit Hours:	3
Course Delivery:	Classroom
Group:	Elective

MIB **Doing Business in China****613**Prerequisites: **None**

The broad objective of this course is to introduce students to the contours of the Chinese economy and financial markets as well as to the nuances of business strategy to follow while doing business in China. In 2010, China has become the second largest economy in the world, and in 2009, she became the largest exporter. As China assumes a primal place in the global economy, businesses need to have a China-specific business strategy. Students will learn how organizations can strategize for China while adapting to China's special niche and circumstances.

Credit Hours:	3
Course Delivery:	Classroom
Group:	Elective

TBD**Cybersecurity**Prerequisites: : **None**

This course will provide a basic introduction to of all aspects of cybersecurity including business, policy and procedures, communications security, network security, security management, legal issues, political issues, and technical issues.

Credit Hours:	2
Course Delivery:	Classroom
Group:	Elective

TBD**Digital Business & Innovation**Prerequisites: : **None**

This course provides insight into the emergence of digital business, key concepts, technologies, and strategy. Students will develop an action plan for a 'traditional' business which could adopt digital technologies and strategies. This course is designed for students planning on working in digital businesses, or working in management consultancies.

Credit Hours:	2
Course Delivery:	Classroom
Group:	Elective

TBD**Tech Entrepreneurship & Product Development**Prerequisites: : **None**

This course blends traditional development and entrepreneurship processes encouraging students to consider how technology-based solutions can solve economic and socially oriented problems. The course prepares also students for a more technological approach of product development together with an experience-based introduction into the process of starting a technology company.

Credit Hours:	2
Course Delivery:	Classroom
Group:	Elective

TBD**Database Management**Prerequisites: : **None**

This course offers lecture and laboratory practice to provide a foundation in data management concepts and database systems. It includes database

Credit Hours:	2
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management concepts, manipulating data with an interactive query language (SQL) and database development including database security, integrity and privacy issues.

Course Delivery:	Classroom
Group:	Elective

Software Engineering

TECH

Prerequisites: **Previous exposure to Programming with R, Programming with Python, Programming with Javascript will be highly recommended**

This course aims to help students appreciate the reality software development, with customer needs, budget constraints and delivery schedules to be met. Through hands-on experience, students will gain an exposure of the challenges of software development, along with an understanding of the core software engineering concepts that support current best practice.

Credit Hours:	2
Course Delivery:	Classroom
Group:	Elective

Strategy for Tech

TBD

Prerequisites: : **None**

The focus of the course is on the key concepts, models, and methods that enable managers to effectively manage the development and utilization of technologies. The goal is to develop an awareness of the range, scope, and complexity of the elements, issues, and problems related to economics and management of technology and technological innovations. Students will develop a better understanding of the complex issues surrounding the managerial tasks with respect to technology.

Credit Hours:	2
Course Delivery:	Classroom
Group:	Elective

Master's Thesis

TBD

Prerequisites: : **None**

The primary goal of this course is to help students develop research skills through its focus on writing and critiquing research proposals. This course is open to students enrolled in Master's programs who wish to develop a dissertation or independent research proposal in a structured setting. SolBridge will support these students by connecting them with professors specialized on the topics they choose so that the faculty's role will be to orient and mentor the students towards their objectives. Professors will follow up the development of the thesis along with the students, instruct them with the best practices & support materials, and gradually evaluate the outcomes and conclusions.

Credit Hours:	3
Course Delivery:	Classroom
Group:	Elective

Computer Programming with R

**MKT
619**

Prerequisites: : **None**

This course introduces the basics of computer programming R language. Topics include programming with R using data types, algorithms, object-oriented

Credit Hours:	3
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analysis and design. The course also takes up various programming techniques such as design, implementation, testing, trouble shooting and documentation

Course Delivery:	Classroom
Group:	Elective (Tech)

**MKT
620**

Regression Analysis with R for Business

Prerequisites: : **None**

This, as most research in social sciences, aims at quantifying relationships among variables that either measure the outcome of some process or are likely to affect the process, where the process in question could be any economic, business, or management process of interest to the social scientist. The quantification of the process may be as simple as determining the degree of association or as complicated as estimating the parameters of a detailed nonlinear system.

Regardless of the complexity of the model, the most powerful and widely used statistical method for estimating the parameters of interest is the method of least squares. Researchers choose the most appropriate model for the project at hand, the parameters of the model are then estimated such that model predictions and the observed data are in as good agreement as possible as measured by the least squares criterion, minimization of the sum of squared differences between the predicted and the observed points.

In Applied Regression Analysis with R, we will learn what is and how to use regression by analyzing a variety of real world problem. Heavy emphasis will be placed on analysis of actual datasets. Topics covered include: review of probability and statistics; simple linear regression (SLR); multiple linear regression (MLR); inference; dummy variables; asymptotics; further issues on MLR; heteroskedasticity; specification and data problems; limited dependent variables; time series; instrumental variables (IV) and two-stage least squares (2SLS) (optional); simultaneous equations (optional); panel data (optional).

Credit Hours:	3
Course Delivery:	Classroom
Group:	Elective (Tech)

**MKT
637**

Data Analytics for Business

Prerequisites: : **None**

Digitalization has transformed business management in big ways. These days most business transactions, operations and communications are being conducted online. Employees, suppliers and customers are interacting with each other in unprecedented ways and scales. As a result, new generation enterprise systems, social networking sites, cloud and mobile-based apps are generating troves of business data (BIG DATA). Firms are still grappling with the challenges related to these newer, bigger and fast-changing datasets. The demand for data modelers, business analysts and data scientists – capable of mining actionable intelligence from big data – has outpaced the number of available professionals.

This course aims to introduce participants to data science and applications of big data analytics technologies for business decision support. It would provide a helicopter view of the full data analytical cycle to the participants involving problem definition, data mining, modeling, data analysis and its application to business decision-making. Along the way, it will also equip the participants with most relevant tools and skills in each of the phases of the data analytic cycle. Although the course does not involve or require programming knowledge neither does it goes deep into technologies like in-memory databases, artificial intelligence and machine learning, owing to the technical nature of the subject, participants are expected to be willing to invest time in learning several supporting concepts and tools to make full sense of the discussed topics.

Credit Hours:	3
Course Delivery:	Classroom
Group:	Elective (Tech)

TBD

Statistical Analysis

Prerequisites: : **None**

This is an introductory course in statistics designed to provide students with the basic concepts of data analysis and statistical computing. Topics covered include basic descriptive measures, measures of association, probability theory, confidence intervals, and hypothesis testing. The main objective is to provide students with pragmatic tools for assessing statistical claims and conducting their own statistical analyses.

Credit Hours:	3
Course Delivery:	Classroom
Group:	Elective

**MKT
618**

Computer Programming with Python

Prerequisites: : **None**

This course deals with applications of Python programming language to business problems. Topics include how to get started with Python, numbers and strings, loops, functions, lists, data files, summarizing and visualizing data, and big data applications.

Credit Hours:	3
Course Delivery:	Classroom
Group:	Elective (Tech)

**BUS
640**

Project Management

Prerequisites: **None**

This course has been intended to equip students with the basic concepts and foundation of project management which include the planning, scheduling, controlling, resource allocation, and performance measurement activities required for successful completion of a project. Accordingly, students would be able to understand the project management lifecycle and be knowledgeable on the various phases from project initiation through closure. Overall, this course helps students in defining a project's scope and tasks, estimating task resource needs, assessing project risk and response strategies, and more understand the critical role that a project manager plays in project success.

Credit Hours:	3
Course Delivery:	Classroom
Group:	Elective

**FIN
601**

Investment Analysis

Prerequisites: **FIN501**

This course is to study the concepts of portfolio analysis in the general area of institutional investment management. The course discusses principles for managing investment assets that include equity and fixed-income securities. These principles can be used on corporate investment management, bank-administered trusts, and other institutional investment management. Students will learn the methods to establish appropriate investment objectives, develop optimal portfolio strategies, estimate risk-return tradeoffs, and evaluate investment performance.

Credit Hours:	3
Course Delivery:	Classroom
Group:	Elective

**FIN
602**

Mergers & Acquisitions

Prerequisites: **FIN501**

This course is about mergers and acquisitions. Students will be equipped with conceptual and analytical tools needed for mergers and acquisitions. Classroom case discussions and conceptual material will cover a wide range of countries from American, Europe and Asia. Mergers and friendly acquisitions, hostile takeovers and initial public offering will be studied. This course studies the factors of a successful merger or acquisition. Issues about motive and strategy will be discussed, financial theory, social responsibility, and corporate valuation would be used to view these control acquiring transactions. Students will learn to develop a concept and translate that idea into a proposal through deal design; and to analyze to form opinions about proposed deals.

Credit Hours:	3
Course Delivery:	Classroom
Group:	Elective

FIN Corporate Finance

609

Prerequisites: **FIN501**

This course is about business finance. It is to provide a framework, concepts, and tools for analyzing financial decisions based on fundamental principles of modern financial theory. The approach is rigorous and analytical. Topics covered include discounted cash flow techniques; corporate capital budgeting and valuation, investment decisions under uncertainty, capital asset pricing, capital structure, cost of capital, dividend policy, options, and market efficiency.

Credit Hours:	3
Course Delivery:	Classroom
Group:	Elective

FIN Financial Markets and Institutions

613

Prerequisites: **None**

This course studies today's financial system. It includes foundational topics on financial instruments, markets and institutions in the US, Europe and Asia, as well as contemporary issues and methods in financial risk management. Students would understand the role of and interdependence between, the different elements in the financial system.

Credit Hours:	3
Course Delivery:	Classroom
Group:	Elective

FIN Special Topic In Finance

635

Prerequisites: **None**

This course provides the student with an understanding of various aspects of the Financial Management. Students will learn about up-to-dated information and skills in the financial market.

Credit Hours:	3
Course Delivery:	Classroom
Group:	Elective

MKT Consumer Behavior and Decision Making

602

Prerequisites: **MKT500**

This course examines the concepts and principles of customer behavior with the goal of understanding how the consumer behavior influences decision making process. The core topics included are customer psychological processes (e.g., motivation, perception, attitudes, and decision-making) and their impact on marketing (e.g., segmentation, branding, and customer satisfaction) and decision making processes. The goal is to provide a set of approaches to consider while developing marketing strategies and marketing programs.

Credit Hours:	3
Course Delivery:	Classroom
Group:	Elective

MKT Marketing Strategy

613

Prerequisites: **MKT500**

The marketing strategy forms the core of all marketing decisions in the organizations. The course explains how the decision variables (Product, Price, Place and Promotion) interact with one another to achieve customer value. The course provides emphasis on consumer driven marketing concepts and discusses the marketing strategies focusing towards the achievement of consume driven marketing. The course is application oriented and the students will learn to apply marketing concepts for problem solving and case study situations.

Credit Hours:	3
Course Delivery:	Classroom
Group:	Elective

MKT Marketing Communications and Advertising

615

Prerequisites: **MKT500**

This course examines the theory and techniques applicable to all the major marketing communication functions: advertising, direct marketing, sales promotions, public relations, and personal selling. It explains how the integrated marketing communications facilitate the marketing mix and marketing strategies. It provides a knowledge base that will allow students to develop integrated marketing communication strategies for marketing plan of organizations. The course provides a special emphasis on the advertisement strategies followed to promote the product and services in domestic and international markets.

Credit Hours:	3
Course Delivery:	Classroom
Group:	Elective

MKT International Marketing

616

Prerequisites: **None**

This course focuses on marketing strategy and management within the context of global and international markets. It evaluates cultural differences and aims to enhance the skills in developing and implementing marketing strategies and decision making in international contexts. This course will provide practical experience in conducting research and evaluating opportunities existing in international markets, developing plans for exploiting those opportunities, and examine the risks facing business activities in those markets through implementation of marketing plans.

Credit Hours:	3
Course Delivery:	Classroom
Group:	Elective

MKT Marketing Research

617

Prerequisites: **MKT500**

This unit provides a rigorous experience in market research methods and frameworks to guide when which technique is most useful. The course is aimed at individuals whose decision-making is enhanced through marketing research, which transforms “data” into “information.” The unit will introduce types of research, techniques of data collection, evaluation of alternative sources of information, methods for analyzing data and presenting the results.

Credit Hours:	3
Course Delivery:	Classroom
Group:	Elective

MKT Special Topics in Marketing

635

Prerequisites: **None**

This course offers Investigation and discussion of a selected topic in marketing. One of the following five topics will be chosen for intensive study: (1) industrial marketing management, (2) advanced consumer behavior, (3) product policy, (4) financial aspects of marketing management, (5) marketing in the service sector, etc.

Credit Hours:	3
Course Delivery:	Classroom
Group:	Elective

MKT Marketing Analytics

610

Prerequisites: **None**

The primary objective of this course is to provide students with foundational knowledge and a basic skill set required for a market analyst. This course objective is aligned mainly with “Creative Management Foundation”, one of the Solbridge’s five mission-based goals. It is also supplemented by a variety of real-world examples used in class lectures.

Credit Hours:	3
Course Delivery:	Classroom
Group:	Elective
