

## MSc (Venture Creation) – Core and Elective Modules Offered

Module Title	MCs	LAB	Subsidy status
<b>Core Modules</b>			
TR3301 Summer Programme in Entrepreneurship	4	N	No subsidy
TR5302 Experiential Entrepreneurship Internship	8	N	No subsidy
TR5049 Lean StartUp Practicum	12	N	No subsidy
BMS5405S New Venture Creation	4	N	No subsidy
<b>Elective Modules</b>			
<b>Business-related</b>			
BMS5103 Entrepreneurial Strategy	4	N	No subsidy
BMS5104 Current Trends in Growth Markets	4	N	No subsidy
BMS5105 Strategy and Big Data	4	N	No subsidy
BMS5107 Ethical Leadership and Corporate Strategy	4	N	No subsidy
BMS5108 Macroeconomics and Finance: Perspectives from Asia	4	N	No subsidy
BMS5109 Strategy: Bridging the Planning – Implementation Divide	4	N	No subsidy
BMS5110 Managerial Economics	4	N	No subsidy
BMS5111 Legal Issues in Business	4	N	No subsidy
BMS5113 Venture Capital	4	N	No subsidy
BMS5114 Asian Business Environment	4	N	No subsidy
BMS5115 Strategic Negotiations	4	N	No subsidy
BMS5202 Global Supply Chain Management	4	N	No subsidy
BMS5203 The Knowledge & Innovation Economy 4.0	4	N	No subsidy
BMS5204 Cross-Border Business Management in the Digital Age	4	N	No subsidy
BMS5205 Business Analytics	4	N	No subsidy
BMS5206 Business Analytics with R	4	N	No subsidy
BMS5302 International Finance	4	N	No subsidy
BMS5303 Valuation and Mergers & Acquisitions	4	N	No subsidy
BMS5304 Selected Topics in Finance: Private Equity	4	N	No subsidy
BMS5305 Entrepreneurial Finance	4	N	No subsidy
BMS5306 International Financial Management	4	N	No subsidy
BMS5307 Financial Markets and Institutions	4	N	No subsidy
BMS5308 Personal Finance and Wealth Management	4	N	No subsidy
BMS5309 Investment Banking	4	N	No subsidy
BMS5310 Financial Management of Family Business	4	N	No subsidy
BMS5311 Corporate Finance	4	N	No subsidy
BMS5404 Becoming Future Prepared Global Leaders	4	N	No subsidy
BMS5406 Asian Leadership	4	N	No subsidy
BMS5407 Workplace and Corporate Deviance	4	N	No subsidy
BMS5502 Marketing Practice & Impact	4	N	No subsidy
BMS5503 Pricing	4	N	No subsidy
BMS5504 Marketing Analysis and Decision Making	4	N	No subsidy
BMS5505 Marketing in a Digital Age	4	N	No subsidy
BMS5506 Consumer Behaviour	4	N	No subsidy
BMS5507 Behavioral Economics	4	N	No subsidy
BMS5508 Design Thinking & Business Innovations	4	N	No subsidy

BMS5509 Consumer Culture Theory	4	N	No subsidy
BMS5510 Marketing Strategies in the New Economy	4	N	No subsidy
BMS5511 Sustainability Marketing	4	N	No subsidy
BMS5602 Business Analysis and Valuation	4	N	No subsidy
BMS5702A Asian Management and Leadership: Learning From Zheng He	4	N	No subsidy
BMS5702B Managing Business Networks	4	N	No subsidy
<b>Management of Technology-related</b>			
MT5007 Management of Technological Innovation	4	N	No subsidy
MT5006/IE5211 Strategic & New Product Development	4	N	No subsidy
MT5010 Technology Intelligence & IP Strategy	4	N	No subsidy
MT5911 Venture Funding	4	N	No subsidy
<b>Technology-related</b>			
CS5228 Knowledge Discovery and Data Mining	4	N	No subsidy
CS5242 Neural Networks and Deep Learning	4	N	No subsidy
CS5272 Embedded Software Design	4	N	No subsidy
CS5321 Network Security	4	Y	SSG subsidy
CS5322 Database Security	4	Y	SSG subsidy
CS5331 Web Security	4	Y	SSG subsidy
CS5339 Theory and Application of Machine Learning	4	N	No subsidy
CS5421 Database Applications Design and Tuning	4	N	No subsidy
CS5422 Wireless Networking	4	N	No subsidy
CS5424 Distributed Database	4	N	No subsidy
CS5425 Big Data Systems for Data Science	4	N	No subsidy
CS5439 Software Security	4	Y	SSG subsidy
DSC5221A Managing the Financial Supply Chain	2	N	SSG subsidy
EE5020 Data Science for Internet of Things	2	Y	SSG subsidy
EE5023 Wireless Networks	2	Y	SSG subsidy
EE5026 Machine Learning for Data Analytics	2	Y	SSG subsidy
EE5027 Statistical Pattern Recognition	2	Y	SSG subsidy
EE5060 Sensors and Instrumentation for Automation	2	Y	SSG subsidy
EE5061 Industrial Control and Programming	2	Y	SSG subsidy
IND5001 Introduction to Industry 4.0 & Applications	4	N	No subsidy
IND5002 Digital Physical Integration in Industry 4.0	4	N	No subsidy
IND5003 Data Analytics for Sense-making	4	N	No subsidy
IND5004 Digital Infrastructure and Transformation	4	N	No subsidy
IND5021 Managing the Digital Supply Chain	4	N	SSG subsidy
IND5022 Data Analytics for Smart Manufacturing	4	N	SSG subsidy
IND5024 Strategic Procurement in a Digital World	2	N	SSG subsidy
IS5003 Platform Design and Economy	4	N	No subsidy
IS5004 Enterprise Architecture	4	N	No subsidy
IS5005 Digital Engagement	4	N	No subsidy
IS5006 Intelligent System Deployment	4	Y	No subsidy
IS5007 Strategising for Global IT-enabled Business Success	4	N	SSG subsidy
IS5116 Digital Entrepreneurship	4	N	SSG subsidy
IS5117 Digital Government	4	N	SSG subsidy
IS5126 Hands-on with Applied Analytics	4	N	No subsidy

IS5128 Digital Innovation	<b>4</b>	N	No subsidy
IS5151 Information System Security Policy & Management	<b>4</b>	N	SSG subsidy
IS5152 Data-Driven Decision Making	<b>4</b>	N	No subsidy
IS5451 Pervasive Technology Solutions and Development	<b>4</b>	Y	No subsidy
MDG5227 Bio-Innovation & Entrepreneurship	<b>4</b>	N	No subsidy
MDG5236 Pathways to Biomedical Innovation and Enterprise	<b>2</b>	N	No subsidy
MDG5237 Biomedical Innovation Capstone*	<b>2</b>	N	No subsidy
ME5513A Fatigue Analysis for Additive Manufacturing	<b>2</b>	Y	SSG subsidy
ME5614A Special Project in Additive Manufacturing	<b>2</b>	Y	SSG subsidy
ME5615B Post-processing for Additive Manufacturing	<b>2</b>	Y	SSG subsidy
MLE5301 Metallic & Ceramic Materials in Additive Manufacturing	<b>2</b>	Y	SSG subsidy
MLE5302 Polymer Materials in Additive Manufacturing	<b>2</b>	Y	SSG subsidy
ST5227 Applied Data Mining	<b>4</b>	N	SSG subsidy

\*subject to approval

Our elective module offerings are subject to changes.

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## ***Core Modules offered in the Master of Science (Venture Creation) Programme***

### **TR3301 Summer Programme in Entrepreneurship**

#### **Module Description:**

A two week long immersion module that introduces students to the core concepts of entrepreneurship. Through action learning, cross-cultural team learning and hackathon pitching, this module aims to inculcate an entrepreneurial mindset and provide the foundational understanding of the entrepreneurial start-up process contextualized in the startup ecosystems of Singapore and Southeast Asia.

**Pre-requisite(s):** Nil

**Co-requisite(s):** Nil

**Preclusion(s):** TR5301 Summer Programme in Entrepreneurship

**Cross-listing:** Nil

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### **TR5302 Experiential Entrepreneurship Internship**

#### **Module Description:**

Semester long internship culminating in an optional Capstone 2-week overseas study mission. The student will prepare a weekly logbook as well as internship reports which will be used a part of the evaluation of their internship experience.

**Pre-requisite(s):** Nil

**Co-requisite(s):** Nil

**Preclusion(s):** Nil

**Cross-listing:** Nil

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### **TR5049 Lean StartUp Practicum**

#### **Module Description:**

The module provides a hands-on practical introduction to the Lean StartUp methodology. Students will learn and apply the lean launch methodology for customer discovery/market validation to empirically test and validate their business idea.

**Pre-requisite(s):** Nil

**Co-requisite(s):** Nil

**Preclusion(s):** Nil

**Cross-listing:** Nil

## **BMS5405S New Venture Creation**

### **Module Description:**

Creating a new business is a challenging and complex task. The road to entrepreneurial success is long, winding and strewn with pitfalls, obstacles and blind turns. The risks of starting a new business are high, as illustrated by the high failure rates for new ventures. However, as is always the case, the rewards are commensurate with the risk: in addition to the psychic rewards of starting a business, witness the dominance of entrepreneurs in the Forbes 400 list.

**Pre-requisite(s):** Nil

**Co-requisite(s):** Nil

**Preclusion(s):** BMS5405 New Venture Creation Practicum: Lean Startup Method, TR3002 New Venture Creation, BSN3702 New Venture Creation

**Cross-listing:** Nil