

MSc (Venture Creation) – Core and Elective Modules Offered

Module Title	MCs	LAB	Subsidy status
Core Modules			
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	SSG subsidy
Elective Modules			
Specialised Electives			
TR5101 New Venture Finance	4	N	No subsidy
TR5102 Intellectual Property Basics for Entrepreneurs	4	N	No subsidy
BMS5121S Digital Transformation	4	N	No subsidy
BMS5203S The Knowledge & Innovation Economy 4.0	4	N	SSG subsidy
General Electives			
Business-related			
BMS5105 Big Data & Business Strategy	4	N	SSG subsidy
BMS5512 Marketing Analytics	4	N	SSG subsidy
BMS5114 Asian Business Environment	4	N	SSG subsidy
BMS5117 Game Theory for Managers	4	N	No subsidy
BMS5119 Asian Family Business	4	N	No subsidy
BMS5120 Innovation & Strategies in Emerging Markets	4	N	No subsidy
BMS5205 Business Analytics	4	N	SSG subsidy
BMS5502 Marketing Practice & Impact	4	N	No subsidy
BMS5702A Asian Management and Leadership: Learning From Zheng He	4	N	SSG subsidy
Management of Technology-related			
MT5006 Strategic & New Product Development *	4	Y	No subsidy
MT5007 Management of Technological Innovation *	4	Y	No subsidy
IE5211 New Product Development *	4	Y	No subsidy
Technology-related			
CS5228 Knowledge Discovery and Data Mining	4	Y	No subsidy
CS5242 Neural Networks and Deep Learning	4	Y	No subsidy
CS5272 Embedded Software Design	4	Y	No subsidy
CS5321 Network Security	4	Y	SSG subsidy
CS5322 Database Security	4	Y	SSG subsidy
CS5331 Web Security	4	Y	SSG subsidy
CS5332 Biometric Authentication	4	Y	SSG subsidy
CS5339 Theory and Algorithms for Machine Learning	4	Y	No subsidy
CS5421 Database Applications Design and Tuning	4	Y	No subsidy
CS5422 Wireless Networking	4	Y	No subsidy
CS5424 Distributed Databases	4	Y	No subsidy
CS5425 Big Data Systems for Data Science	4	Y	No subsidy
CS5439 Software Security	4	Y	SSG subsidy
EE5025 Intellectual Property: Innovations in IoT	2	Y	SSG 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	N	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	4	N	No subsidy
IS5151 Information Security Policy and Management	4	N	SSG subsidy
IS5152 Data-Driven Decision Making	4	N	No subsidy
IS5451 Pervasive Technology Solutions and Development	4	N	No subsidy
MDG5227 Bio-Innovation & Entrepreneurship	4	N	No subsidy
MDG5236 Pathways to Biomedical Innovation and Enterprise	2	N	No subsidy
MDG5237 Biomedical Innovation Capstone	2	N	No subsidy
ME5513A Fatigue Analysis for Additive Manufacturing	2	Y	SSG subsidy
ME5614A Special Project in Additive Manufacturing	2	Y	SSG subsidy
ME5615B Post-processing for Additive Manufacturing	2	Y	SSG subsidy
MLE5301 Metallic & Ceramic Materials in Additive Manufacturing	2	Y	SSG subsidy
MLE5302 Polymer Materials in Additive Manufacturing	2	Y	SSG subsidy
ST5227 Applied Data Mining *	4	N	SSG subsidy

*subject to approval

Note: The Elective Module offerings are subject to changes.

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

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

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