Bachelor of Hospitality Technology Innovation Major Hospitality Technology Innovation Minor Enterprenuership (International Program) Suranaree University of Technology School of Social Technology

Program Overview

School of Social Technology, Suranaree University of Technology, designed a bachelor degree in Hospitality Technology Innovation (B.H.T.I) (International Program) that emphasizes the ability to apply knowledge and skills in the development and use of technology in the hospitality industry with a global mindset.

The Hospitality Technology Innovation Program provides students with academic qualifications and a set of specialist knowledge and skills that are attractive to potential employers that can be applied to a range of sectors in the hospitality industry, especially; hotel, tourism, aviation, and M.I.C.E (Meeting, Incentive, Convention, Exhibition). Moreover, this program also provides a set of knowledge and skills of entrepreneurship which can be applied for hotel, tourism, aviation, and M.I.C.E. businesses.

The course applies a range of teaching methods to facilitate and encourage effective learning such as pair and group work, work projects, seminar, including interaction with the industry through site visit, guest speakers and practical work. Students will develop valuable work experience through enterprise cooperative education or enterprise incubation with the opportunity to work on entrepreneurial project under the supervision of a mentor from a workplace and the university.

What opportunities might it lead to

Your specialist knowledge and skills of technology and innovation in hospitality industry could lead you to a career related to technology in the hotel, tourism, aviation, and M.I.C.E industries.

- Hotel: Technology specialist in room service, food and beverage service, cost control, revenue management, facility management, and digital marketing for hotel business
- **Tourism:** Technology specialist in operation and management in tour operators and travel agencies, tour operation, reservation and sales of tourism products and services, tourism management, tourism resource development, and digital marketing for tourism
- Aviation: Technology specialist in passenger ground service, in-flight service, air cargo, and airport management
- M.I.C.E: Technology specialist in strategic management, M. I. C. E project management, M. I. C. E organizing, technology and digital design in M. I. C. E industry, and digital marketing for M.I.C.E.
- **Entrepreneur** of businesses in the hospitality industry; hotel, tourism, aviation, and M.I.C.E, that focuses on technology and innovation
- Duration: 4 Years / 11 Terms (Trimester)

Admission Requirement:

Fee, Funding, and Scholarship:

Course commencement Date: August 2019

Program Structure

1	General Education			38	Credits
	1.1 Core Courses	15	Credits		
	1.2 Foreign Lanaguage Courses	15	Credits		
	1.3 Elective Course	8	Credits		
2	Specific Courses			119	Credits
	2.1 Foundation Course of Technology	20	Credits		
	2.2 Major Hospitality Technology	63	Credits		
	Innovation				
	2.3 Minor Enterprenuership	21	Credits		
	- Work Placement 9 Credits				
	2.4 Foreign Languages for Business	15	Credits		
3	Free Elective Courses			8	Credits
	Total			165	Credits

1. General Education Courses 38 C					
1.1 Co	re Courses	15	Credits		
	(L	_ecture-P	ractice-S	elf Study)	
202108	Digital Literacy			2(2-0-4)	
202109	Use of Application Program for Learning	g		1(0-2-1)	
202201	Life Skills			3(3-0-6)	
202202	Citizenship and Global Citizens			3(3-0-6)	
202203	Man, Social and Environment			3(3-0-6)	
202207	Man, Economy and Development			3(3-0-6)	
1.2 Fo	reign Language Courses	15	Credits		
213101	English For Communication I			3(3-0-6)	
213102	English For Communication II			3(3-0-6)	
213203	English For Academic Purposes			3(3-0-6)	
213204	English For Specific Purposes			3(3-0-6)	
213305	English For Careers			3(3-0-6)	
1.3 Ele	ective Courses	8	Credits		
202111	Thai for Communication			2(2-0-4)	
202175	Art Appreciation			2(2-0-4)	
202181	Holistic Health			2(2-0-4)	
202222	Professional and Community Engageme	ent		2(1-2-3)	
202241	Law in Daily Life			2(2-0-4)	
202324	Pluri-Cultural Thai Studies			2(2-0-4)	
202331	Asean Studies			2(2-0-4)	
202373	Design Thinking			2(2-0-4)	

2. Specifi	c Courses 119	Credits
2.1 Fo	undation Courses of Technology 20 Credits	5
211101	Computer Programming for Information System I	3(2-2-5)
211102	Information System Analysis	3(2-2-5)
211201	Database Design and Development	4(3-3-8)
211202	Web Technology	3(2-3-6)
211203	Animation and Multimedia Design and Development	3(2-3-6)
211301	Technology of Digital Media Production for Hospitality	4(1-6-6)
	Industry	
2.2 Ma	jor Hospitality Technology Innovation 6	3 หน่วยกิต
	1. Hotel Technology Innovation 14 หน่วยกิต	
211121	Introduction to Hotel Business	3(3-0-6)
211125	Hotel Business Operation	3(2-2-5)
211223	Hotel Business Management	4(2-4-6)
211321	Technology and Innovation in Hotel Business	4(1-6-5)
	2. Tourism Technology Innovation 14 หน่วยกิต	
211122	Introduction to Tourism Industry	3(3-0-6)
211126	Operation in Tourism	3(2-2-5)
211224	Tourism Management	4(2-4-6)
211322	Technology and Innovation in Tourism	4(1-6-5)
	3. Aviation Technology Innovation 14 หน่วยกิต	
211123	Introduction to Aviation Industry	3(3-0-6)
211221	Operation in Aviation Industry	3(2-2-5)
211225	Management in Aviation Industry	4(2-4-6)
211323	Technology and Innovation in Aviation Industry	4(1-6-5)
	4. M.I.C.E Technology Innovation 14 หน่วยกิต	
211124	Introduction to M.I.C.E. Industry	3(3-0-6)
211222	Operation in M.I.C.E.	3(2-2-5)
211226	M.I.C.E. Management	4(2-4-6)
211324	Technology and Innovation in M.I.C.E.	4(1-6-5)

	5. Seminar and Project	7 Cresdits
211381	Seminar in Hospitality Technology Innovation	3(3-0-6)
211481	Project in Hospitality Technology Innovation	4(0-8-0)
2.3 Mi	nor Enterprenuership	21 Credits
	1. Compulsary Courses	8 Credits
205305	Entrepreneurship and New Venture Creation	3(3-0-6)
205306	Go-to-Market Strategies for Innovative Product a	nd Service 2(2-0-4)
205307	Business Plan and Financing	3(3-0-6)
	2. Elective Courses	4 Credits
205381	Business Model Innovation	2(1-2-3)
205382	Product and Service Design	2(1-2-3)
205383	Legal Aspects for Innovative Entrepreneurs	2(2-0-4)
205384	Intellectual Property Strategies for Innovative Bu	usiness 2(2-0-4)
205385	Social Innovation Development	2(1-2-3)
205386	Social Entrepreneurship	2(1-2-3)
205387	Technopreneurship	2(1-2-3)
205388	Entrepreneurial Logistics	2(2-0-4)
	3. Work Placement	9 หน่วยกิต
205395	Pre-Enterprise Cooperative Education or	1(1-0-2)
	Pre-Enterprise Incubation	
205492	Enterprise Cooperative Education	8 Credits
205493	Enterprise Incubation	8 Credits

2	15	Credits		
		1. Business English		
20332	22	English for Business Correspondence		3(3-0-6)
20332	24	English for Business Presentation		3(3-0-6)
20332	25	English for Business Meetings		3(3-0-6)
20332	26	English for Customer Service		3(3-0-6)
20332	23	English for Business Negotiation		3(3-0-6)
		2. Chinese Language		
2034	01	Chinese I		3(3-0-6)
2034	102	Chinese I		3(3-0-6)
2034	103	Chinese III		3(3-0-6)
2034	104	Business Chinese I		3(3-0-6)
2034	105	Business Chinese II		3(3-0-6)
		3. Japanese Language		
2034	11	Japanese I		3(3-0-6)
2034	12	Japanese II		3(3-0-6)
2034	13	Japanese III		3(3-0-6)
2034	14	Business Japanese I		3(3-0-6)
2034	15	Business Japanese II		3(3-0-6)

3. Free Elective Courses

8 Credits

Select any courses available in the university.

Study Plan

Year 1 Term 1	Cr	Year 1 Term 2	Cr	Year 1 Term 3	Cr
202202 Citizenship and Global	3	202201 Life Skills	3	202108 Digital Literacy	2
Citizens					
213101 English For Communication I	3	213102 English For Communication II	3	202109 Use of Application Program for	1
				Learning	
211121 Introduction to Hotel Business	3	211101 Computer Programming for	3	213203 English For Academic Purposes	3
		Information System I			
211122 Introduction to Tourism	3	211123 Introduction to Aviation Industry	3	211102 Information System Analysis	3
Industry					
		211124 Introduction to M.I.C.E. Industry	3	211125 Hotel Business Operation	3
				211126 Operation in Tourism	3
Select 4 credits from the following		Select 2 credits from the following		Select 2 Credits from the following	
<u>courses</u>		<u>courses</u>		<u>courses</u>	
202111 Thai for Communication	2	202111 Thai for Communication	2	202111 Thai for Communication	2
202175 Art Appreciation	2	202175 Art Appreciation	2	202175 Art Appreciation	2
202181 Holistic Health	2	202181 Holistic Health	2	202181 Holistic Health	2
202222 Professional and Community	2	202222 Professional and Community	2	202222 Professional and Community	2
Engagement		Engagement		Engagement	
202241 Law in Daily Life	2	202241 Law in Daily Life	2	202241 Law in Daily Life	2
202324 Pluri-Cultural Thai Studies	2	202324 Pluri-Cultural Thai Studies	2	202324 Pluri-Cultural Thai Studies	2
202331 Asean Studies	2	202331 Asean Studies	2	202331 Asean Studies	2
202373 Design Thinking	2	202373 Design Thinking	2	202373 Design Thinking	2
Total	16	Total	17	Total	17
Year 2 Term 1	Cr	Year 2 Term 1	Cr	Year 2 Term 1	Cr
213204 English For Specific Purposes	3	202203 Man, Social and Environment	3	202207 Man, Economy and Development	3
211201 Database Design and	4	213305 English For Careers	3	211203 Animation and Multimedia Design	3
Development				and Development	
211221 Operation in Aviation Industry	3	211202 Web Technology	3	211225 Management in Aviation Industry	4
211222 Operation in M.I.C.E.	3	211223 Hotel Business Management	4	211226 M.I.C.E. Management	4
		211224 Tourism Management	4		
		Select 3 credits from the following		Select 3 credits from the following	
		Courses		Courses	
		English for Business Correspondence	3	English for Business Presentation	3
		Chinese I	3	Chinese II	3
Free elective course	3	Japanese I	3	Japanese II	3
Total	16	Total	20	Total	17

Year 3 Term 1	Cr	Year 3 Term 2	Cr	Year 3 Term 3	Cr
205305 Entrepreneurship and New	3	205306 Go-to-Market Strategies for	2	205307 Business Plan and Financing	3
Venture Creation		Innovative Product and Service		205395 Pre-Enterprise Cooperative	
				Education or Pre-Enterprise Incubation	1
211301 Technology of Digital Media	4				
Production for Hospitality Industry		Select 2 credits from elective courses	2	Select 2 credits from elective courses	2
211321 Technology and Innovation in	4	of minor enterprenuership		of minor enterprenuership	
Hotel Business					
211322 Technology and Innovation in	4	211323 Technology and Innovation in	4		
Tourism		Aviation Industry			
				211324 Technology and Innovation in	4
				M.I.C.E.	
Select 3 credits from the following		Select 3 credits from the following		211381 Seminar in Hospitality	3
Courses		Courses		Technology Innovation	
English for Business Meetings		English for Customer Service	3		
Chinese III	3	Business Chinese I	3	Select 3 credits from the following	
Japanese III	3	Business Japanese I	3	<u>Courses</u>	
	3			English for Business Negotiation	3
				Business Chinese II	3
				Business Japanese II	3
		Free elective course	3		
		Free elective course	2		
Total	18	Total	16	Total	16
Year 4 Term 1	Cr	Year 4 Term 2	Cr	Year 4 Term 3	Cr
204492 Enterprise Cooperative	8	211481 Project in Hospitality Technology	4		
Education		Innovation			
or	8				
205493 Enterprise Incubation					
Total	8				

*Remark: This study plan may change according to the needs of students based on the program structure.

Instructors responsible for the program

Name	Position	Degree	Major	University / Institute	Grad
					Year
1. Associate Professor Dr.	Associate	Ph.D	Agricultural Economics	Kasetsart University,	1997
Kwankamol Donkwa	Professor			Thailand	
		M.Sci	Economics	Kasetsart University,	1984
				Thailand	
		B.Econ	Quantitative Economics	Ramkamhang University,	1981
				Thailand	
2. Assistant Professor Dr.	Assistant	Ph.D.	Tourism Management	Oxford Brookes University,	2009
Napaporn Janchai	Professor			United Kingdom	
		M.A.	Cultural Management	Chulalongkorn	2003
				University, Thailand	
		B.BA.	Hotel and Tourism Management	Khonkean University,	1999
				Thailand	
3. Assistant Professor Dr.	Assistant	Ph.D	Management	Suranaree University of	2017
Chanisa Maneerungroj	Professor			Technology, Thailand	
		M.B.A.	Business Administration	Middle Tennessee State	1995
				University, United State	
		B.BA.	Industry Management	University of Thai	1993
				Chamber of Commerce,	
				Thailand	
4. Dr.Wanna Naburana	Instructor	P.S.D.	Doctor of Professional Studies	Central Queensland	2017
				University, Australia	
		M.I.S.	International Business	University of	2010
				Wollongong, Australia	
		ປຽ.ປ.	Hotel and Tourism Management	Khonkean University,	2005
				Thailand	
5. Dr.Saranya	Instructor	Ph.D.	Functional Control Systems	Shibaura Institute of	2017
Karnjanawatana				Technology, Japan	
		M.Eng	Computer Engineering	Asian Institute of	2011
				Technology, Thailand	
		B.Eng	Computer Engineering	Suranaree University of	2008
				Technology, Thailand	

Course / Module Description

1. General Education

1.1 Core Coures

202108 Digital Literacy

Prerequisite : None

Selecting sources of information for research; using digital technology in information retrieval; collecting and evaluating information qualities; analyzing and synthesizing information; writing reports and referencing; security, effects, ethics, morals, and laws regarding media and digital technology using

202109 Use of Application Programs for Learning

Prerequisite : None

Basics of computer programming; using application software for document management; presenting information; data management for calculation and creative database management; designing and developing a website for working in a daily life

202201 Life Skills

Prerequisite : None

Knowing and understanding self and others; rational thinking and analyzing; systems and holistic thinking; creative decision-making and problem-solving; self-directed learning in a context of lifelong learning; work-life balance; sufficiency in living; self-care; stress and emotion management; solutions to life issues

202202 Citizenship and Global Citizens

Prerequisite : None

Important characteristics of citizens; roles of Thai and global citizens; important concepts of international relations; international organizations; transboundary impacts; critique and lesson-learned from international phenomena

15 Credits

38 Credits

2(2-0-4)

3(3-0-6)

3(3-0-6)

1(0-2-1)

202203 Man, Society and Environment

Prerequisite : None

Conditions of being human; cultural diversity; social order; ecological system; natural resources and environment; utilization of natural resources; sustainable development

202207 Man, Economy and Development

Prerequisite : None

Economy and social development; trends of economic and social development; exclusive development; inclusive development; innovation- based development; creative economy; community engagement; social entrepreneurship

1.2 Foreign Lanaguage	15 Credits

213101 English for Communication 1

Prerequisite : None

Developing students' abilities for effective communication in social settings; focusing on integrated skills with the primary emphasis on listening and speaking; developing communication and language learning strategies; and promoting autonomous learning using various resources

213102 English for Communication 2

Prerequisite : 213101 English for Communication 1

Further developing students' abilities for effective communication in social and academic settings; focusing on integrated skills, particularly listening and speaking for academic purposes; further developing communication and language learning strategies; and reinforcing autonomous learning using various semi-academic materials from a variety of resources

3(3-0-6)

3(3-0-6)

3(3-0-6)

213203 English for Academic Purposes

Prerequisite : 213102 English for Communication 2

Course content dealing with English for academic purposes for effective communication in an academic field of study; text-based activities involving integrated language skills with an emphasis on reading; exposure to both authentic and semi-authentic materials from both printed and audiovisual materials, as well as online resources

213204 English for Specific Purposes

Prerequisite : 213203 English for Academic Purposes

Further enhancement of students' language skills and ability in science and technology content; exposure to authentic language in science and technology from both printed and audiovisual materials, as well as online resources; focus on text-based tasks involving integrated skills with an emphasis on reading and writing

213305 English for Careers

Prerequisite : 213204 English for Specific Purposes

Developing English skills needed for employment preparation, covering such topics as job search, resumes, cover letters, and job interviews; effective communication skills in the workplace; skills needed in preparing for the Test of English for International Communication (TOEIC)

1.3 Ele	ective Courses	8 Credits
202111 Thai f	or Communication	2(2-0-4)
Prerequisite	: None	
	Principles of Thai Language; skill of using Thai in speaking;	listening; reading; and

writing; composition in Thai for communication and work presentation

3(3-0-6)

3(3-0-6)

202175 Art Appreciation

Prerequisite : None

Definition of art; artists' aspiration for art creation from various perspectives; values and aesthetic for soul; contexts of arts; visual culture towards art interpretation; roles and effects of arts in a society and world cultures through various perspectives; artwork creation valuable for self and others; arts and museums; public arts; music and art therapy; arts for sufficient life

202181 Holistic Health

Prerequisite : None

Concepts regarding holistic health and health balance; weight control; sleep and relaxation; concentration and mental health; stress management; body strengthening; alternative healthcare

202222 Professional and Community Engagement

Prerequisite : None

Projects and activities for building students' working experiences with a community or a professional group that enhance life skills and respond to visions and objectives of a community or a professional group

202241 Law in Daily Life

Prerequisite : None

Basic principle of law; hierarchy of law; population registry law; useful law in daily life law concerning person; property, juristic act and contract; loan agreement; service contract; made-to-order contract; contract of sale; property rental contract; hire-purchase contract; surety ship agreement; mortgage contract; basic law of family and inheritance; consumer protection law; basic law of intellectual property

2(2-0-4)

2(2-0-4)

2(1-2-3)

2(2-0-4)

202324 Pluri-Cultural Thai Studies

Prerequisite : None

Understanding of Thai society and cultural systems; plurality in Thai economic and political development; significance of plural folk wisdoms; concept of sufficiency economy in global trends

202331 ASEAN Studies

Prerequisite : None

Origins and purposes of ASEAN community; unity based on a socio-cultural diversity; respects for rights, civic responsibility and human dignity under different types of governments in each ASEAN Member State; living together happily and peacefully with ASEAN friends; quality of life in education and working systems

202373 Design Thinking

Prerequisite : None

Creative thinking; questioning and problem-solving; brainstorming and society need-based service design; prototyping; appropriate application of innovation; lesson-learned

2. Specific Courses	119 Credits
2.1 Foundation Courses of Technology	20 Credits
211101 Computer Programming for Information System I)	3(2-2-5)
Pre-requisite : None	

Computer languages and syntax; computer program design and development; steps and procedures for programming using high level computer languages, such as C language; input and output; variable data type; expression; operators; control statements; array; programming to solve problems and for use in information systems

2(2-0-4)

2(2-0-4)

2(2-0-4)

3(2-2-5)

211102 Information System Analysis

Pre-requisite : None

Definition, significance and components of information systems; objectives and benefits of information systems in organization; system development life cycle; organization structure, analysis and information circulation; analysis and conceptual design; the concepts of business processes; characteristics of a quality process; business process identification; framework for business process improvement; case studies on the topic of information system and business process analysis

211201 Database Design and Development

Pre-requisite : None

Definition, types and significance of data and databases; database design techniques; software for developing and managing databases; relational database development; database administration with emphasis on data accuracy and data security; technology for database development; applications of database to information services

211202 Web Technology

Pre-requisite : None

Fundamental Web technology: Web browsers, Web servers, Web site design and development; Web application programs; Web database; HTML; XML; Web service; Web Content Management System; CSS; Hypertext Transfer Protocol (HTTP); privacy; reliability; Web security

211203 Animation and Multimedia Design and Development3(2-3-6)Pre-requisite : None

Concepts of multimedia; principles of multimedia design; current technology for multimedia design and production; multimedia application in communication; techniques for data selection and special techniques for multimedia development such as still pictures and motion, animation, music, sound; testing, evaluation and utilization of communication systems and computer networks for multimedia development

4(3-3-8)

3(2-3-6)

211301 Technology of Digital Media Production for Hospitality Industry4(1-6-6)Pre-requisite : None

Digital media design and development for hospitality industry, using up-to-date technologies and applications for digital media design and production: visual, audio, and audiovisual media for hospitality industry, hands- on practice by using technologies and applications for digital media production for hospitality industry

2.2 Major Hospitality Technology Innovation	63 Credits
1. Hotel Technology Innovation	14 Credits
211121 Introduction to Hotel Business	3(3-0-6)

Pre-requisite : None

Definitions and importance of hotel business, types of hotel business, attributions and roles of hotel business in hospitality industry, structure of hotel business, situation and trends of hotel business in the national and global levels

211125 Hotel Business Operation

Pre-requisite : None

Concept and principles of hotel business operations including room service, food and beverage preparation and service, spa and wellness service and other services, service quality and standard, current issues in operations and customer service, the use of technology in service and operations in the hotel business

211223 Hotel Business Management

Pre-requisite : None

General management for hotel, the property management system (PMS) for hotel, trends and important issues in hotel management, human resource management, digital marketing and innovation in marketing for hotel business, financial control and accounting, cost control, revenue management, facility management, quality management, legal aspects, ethics, social and environmental responsibility of hotel business

4(2-4-6)

3(2-2-5)

211321 Technology and Innovation in Hotel Business

Pre-requisite : None

Trends and directions of global change that affect the use of technology in the operation and management of hotel business, technology and innovation for operations, customer services, and management of hotel business, factors affecting the development of technology and innovation for operation, service and management of hotel business, practical implementation of technology in hotel business

2. Tourism Technology Innovation	14 หน่วยกิต
211122 Introduction to Tourism Industry	3(3-0-6)
Pre-requisite : None	

Tourism system, definition, importance and components of tourism industry, attributions and roles of tourism in hospitality industry, tourist attractions, types of tourism, impacts and influence of tourism, concepts and principles of sustainable tourism, stakeholders in tourism, digital technology for tourism, situation and trends in national and global tourism

211126 Operation in Tourism

Pre-requisite : None

Tourism products and services, tour operation, travel agency, transport network, tourism information, travel advice, online travel agency, current situation and trends in global change that affect the use of technology to generate innovative tourism products and services

211224 Tourism Management

Pre-requisite : None

Tourist behavior and segmentation, cross cultural management, digital marketing and innovation in marketing for tourism, strategic planning and management for tourism, human resource management in tourism, legal aspects, ethics, social and environmental responsibility of tourism

4(2-4-6)

3(2-2-5)

4(1-6-5)

211322 Technology and Innovation in Tourism

Pre-requisite : None

Trends and directions of global change that affect the use of technology in tourism operations and management, development of technology and innovation for tourism operations and management, factors affecting the development of technology and innovation for tourism operations and management, practical implementation of technology in tourism

3. Aviation Technology Innovation	14 หน่วยกิต
211123 Introduction to Aviation Industry	3(3-0-6)
Pre-requisite : None	

Definition, importance and components of aviation industry, environment related to aviation industry, organization and associations related to aviation and airline business, terms and vocabulary used in aviation industry, definition, scope, principles and general conditions of airline business, types of airplane and airport, current situation and global trends affecting the aviation industry

211221 Operation in Aviation Industry

Pre-requisite : None

The operating system of the airline business, travel security system, flight schedules and routes, air traffic regulation, airline reservation system, rules and other conditions for air travel, types, methods and procedures for issuing tickets by airline, calculating price using International Air Transport Association (IATA) exchange rates, airport and ground passenger service system, in-flight passenger service system and process, supervising the safety of passenger on board, standards and measures in the operation of air cargo business, air logistics, air cargo regulations, e-commerce in air freight, air freight system, air cargo security management system, airport system, airport business, system and procedures of airport operations, passenger service by airline and airport

มคอ.2

4(1-6-5)

3(2-2-5)

211225 Management in Aviation Industry

Pre-requisite : None

Concept and principles of passenger ground service management, air cargo management, systematization of airport plan, airport management, structure in airport management and operation, organization of airport management, corporate responsibility, principles of security management, promotion of air travel safety, airline safety management system as per ICAO, operation management of air side and land side, principles of management and operation of cargo, airport facility, regulations related to airport, principles of airport safety management, risk management, human resource management in aviation industry and airline business, marketing innovation in aviation industry and airline business, ethics, social and environmental responsibility of aviation industry

211323 Technology and Innovation in Aviation Industry

Pre-requisite : None

Digital technology in airport management, aviation information management including air traffic management, freight and the airport, digital technology in airline business, trends and directions of global change that affect the use of technology in aviation industry and airline business, factors affecting the development of technology and innovation in aviation industry and airline business, practical implementation of technology in aviation industry and airline business

	4. M.I.C.E Technology Innovation	14 หน่วยกิต
211124	Introduction to M.I.C.E. Industry	3(3-0-6)
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Pre-requisite : None

Definition and importance of M.I.C.E. industry, overview of M.I.C.E. industry in national and global levels, relationship among M.I.C.E., tourism and hospitality businesses, components of M.I.C.E. industry, stakeholders and value chain in M.I.C.E., Destination Management Company (DMC), Professional Conference Organizer (PCO), venue, M.I.C.E. standards and the importance of obtaining standards in M.I.C.E. industry, current situation and global trends affecting M.I.C.E industry

4(2-4-6)

4(1-6-5)

211222 Operation in M.I.C.E.

Pre-requisite : None

Objectives of M.I.C.E. events, how to plan and conduct M.I.C.E. events, M.I.C.E. operations including customer service, food and beverage service, event set up and organization, venue selection, budgeting, accounting, determining the operating time frame, the use of technology in the design of various parts of M.I.C.E. events, ethics and social responsibility in M.I.C.E. industry

211226 M.I.C.E. Management

Pre-requisite : None

Principles and processes of M. I. C. E event management, contracts and negotiations, relationship with relevant persons or organizations, finance and accounting, human resources management, organizational behavior, marketing in M.I.C.E. industry, facilities and services supply for M.I.C.E. events both domestically and internationally, planning strategy, management and operation of M. I. C. E. events, risk and crisis management, effective communication, teamwork, leadership, sustainable management system

211324 Technology and Innovation in M.I.C.E.

Pre-requisite : None

Technology used in M.I.C.E. industry for example; smart venue, technology used for management in M.I.C.E. business (e.g. registration system, communication technology), technology used for stage (e.g. lighting, sounds, stage control, LED screen), technology used for creating event experiences for visitors (e.g. VR technology, AI technology, hologram technology, interactive technology), trends and directions of the global change that affect the use of technology in M.I.C.E. industry, technology and innovation in operations and management of M.I.C.E. events, management of M.I.C.E. data systems, using technology to promote sustainability in M.I.C.E. events, factors affecting the development of technology and innovation in M.I.C.E. operations and management, practical implementation of technology in M.I.C.E. industry

3(2-2-5)

4(2-4-6)

4(1-6-5)

5. Seminar and Project	7 Credits	
211381 Seminar in Hospitality Technology Innovation	3(3-0-6)	
Pre-requisite : None		
Discussions on and analysis of issues related to hospitalit	y technology	
innovation: hotel, tourism, aviation and M.I.C.E., lectures by experts in selected topics,		
presentation and discussion by participants		
211481 Project in Hospitality Technology Innovation	4(0-8-0)	
Pre-requisite : None		
Analysis, planning, and production of hospitality technology innov	vation on a	
selected topic related to hotel, tourism, aviation or M.I.C.E		
2.2 Minor Enterprenuership	21 Credits	
1. Compulsary Courses	8 Credits	

205305 Entrepreneurship and New Venture Creation**3(3-0-6)**

Prerequisite : None

Concepts of entrepreneurship, concepts and processes of business opportunity analysis, design thinking for innovation business idea development, identifying target customers, analysis of customer's problem and need, developing unique value position for product and service, business models and revenue model, legal aspects for innovative entrepreneur, business idea presentation

205306 Go-to-Market Strategies for Innovative Product and Service**2(2-0-4)Prerequisite** : None

Marketing for innovative product and service, market opportunity analysis and market assessment, unique value position analysis, go-to-market strategies of market entering for new product and service, digital marketing for new venture, brand creation, marketing performance evaluation

205307 Business Plan and Financing

Prerequisite : None

Business plan and financial principle for new entrepreneurs, business plan writing, revenue model, business operation and cost structure, return on investment, capital structure and sources of finance, sources of equity over business life cycle

2. Elective Courses4 Credits205381Business Model Innovation2(1-2-3)

Prerequisite : None

Business model concept, business environmental analysis, business and product life cycle, current business model analysis, business model design and development, intellectual property strategies in business model, business model validation

205382 Product and Service Design

Prerequisite : None

New product and service design concepts and processes, idea generations of new product and service using design thinking, idea filtering and assessment, user experience design for product and service, universal design principles for product and service prototyping, product and service concept testing

205383 Legal Aspects for Innovative Entrepreneurs2(2-0-4)Prerequisite : None

Fundamental laws related to juristic person and property, juristic acts, business registration, shareholding structure and shares contributions based on vesting, founders' agreement, employee stock ownership plan, principle of tax and labor laws

205384 Intellectual Property Strategies for Innovative Business**2(2-0-4)Prerequisite** : None

Concept and principle of intellectual property management, types of intellectual property, analysis of intellectual asset and property, intellectual property laws and processes of protection, patent and trademark searching, intellectual property utilization and creating return on intellectual property

3(3-0-6)

2(1-2-3)

205385 Social Innovation Development

Prerequisite : None

Concept and important of social innovation development, environmental and social problems and challenge, design thinking for social problem solving, social impact assessment, case studies of social innovation development in different subjects

205386 Social Entrepreneurship

Prerequisite : None

Concepts of social entrepreneurship, social enterprise and social impact business, business model for social enterprise, marketing strategies for social enterprise, social return on investment, laws related to social enterprise, social enterprise sources of fund

205387 Technopreneurship

Prerequisite : None

Concept of technopreneurship, characteristics and motivation for technopreneurs, intrapreneurship, entrepreneurial mindset and process, opportunity analysis of technology business, technology business model design, sources of fund for technology business

205388 Entrepreneurial Logistics

Prerequisite : None

Concept of supply chain integration, value chain competitiveness, quick consumer response, supplier- producer coordination, supply chain management, roles of digital technology in supply chain integration, procurement logistics, reverse logistics, supply chain optimization, linkages of supply chain strategy aligned to an overall business strategy

2(1-2-3)

2(1-2-3)

2(1-2-3)

2(2-0-4)

205395 Pre-Enterprise Cooperative Education or Pre-Enterprise Incubation1(1-0-2)Prerequisite : None

Preparation for enterprise cooperative education or enterprise incubation, drafting of a brief business plan according to student's interest, development of soft skills for enterprise cooperative education or enterprise incubation students

205492 Enterprise Cooperative Education

Prerequisite : 8 units from compulsory courses and 4 units from elective courses

The student has to work on an entrepreneurial project according to his/her interest under the supervision of a mentor from workplace and an enterprise cooperative education coordinator from the university for a trimester following the requirements of the minor program in entrepreneurship; prior to the enterprise cooperative education placement, the student has to complete and present a draft of business plan to the mentor and the enterprise cooperative education coordinator; upon completion of the enterprise cooperative education placement, the student has to submit a final business plan, or new business model, or prototype and present to the mentor and the enterprise cooperative education coordinator; the evaluation results by the mentor and the enterprise cooperative education coordinator will be used to determine the success of the student

205493 Enterprise Incubation

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Prerequisite : 8 units from compulsory courses and 4 units from elective courses

The student has to work full-time on an entrepreneurial project according to his/her interest at the university incubation or work part-time at university incubation and parttime at the workplace under the supervision of a mentor from workplace and an enterprise coordinator from the university for a trimester following the requirements of the minor program in entrepreneurship; prior to the enterprise incubation placement, the student has to complete and present a draft of business plan to the mentor and the enterprise coordinator; upon completion of the enterprise incubation placement, the student has to submit a final business plan, or new business model, or prototype and present to the mentor and the enterprise coordinator; the evaluation results by the mentor and the enterprise coordinator will be used to determine the success of the student

9 Credits

8 Credits

2.4 Foreign Lanaguage for Business

1. Business English

203322 English for Business Correspondence

Prerequisite : None

Development of knowledge and use of English efficiently and effectively in several types of business correspondence, such as business letters, memos, reports, fax and email messages, and projects/proposals in an organization

203324 English for Business Presentation

Prerequisite : None

Development of data collection and content organization skills for business presentation as well as presentation and question handling skills in a professional manner

203325 English for Business Meetings

Prerequisite : None

Development of skills in leading, participating and arranging business meetings, audience analysis, including cultural factors, final proposal which incorporates reasoning from multiple viewpoints

203326 English for Customer Service

Prerequisite : None

Development of language skills in providing effective and efficient customer service; satisfying customers' needs, and handling customers' inquiries or solving problems with the emphasis on the use of effective communicative strategies and appropriate language

15 Credits

3(3-0-6)

3(3-0-6)

3(3-0-6)

203323 English for Business Negotiation

Prerequisite : None

Development of English and communication strategies for effective negotiations in international settings, including awareness of cultural differences in negotiations

2. Chinese Language

203401 Chinese I

Pre-requisite : None

A basic Chinese language course designed for learners with no previous background to enable them to communicate accurately and appropriately in everyday social interactions, including greetings, introducing oneself and others, thanking, apologizing, complimenting, giving and asking for information, etc. with emphasis on listening and speaking skills. Introduction of Chinese phonetic system and basic Chinese grammatical concepts so as to enable the learners to monitor their own language production

203402 Chinese II

Prerequisite : 203401 Chinese I

Continuation of Chinese I for beginners, aiming at helping learners to acquire three language skills of listening, speaking, and reading needed for common social interactions in different situations, including telephoning, making appointments, asking for and giving directions, shopping, traveling, etc. Introduction of the structure and characteristics of the Chinese characters as well as more complicated grammatical concepts to enable the learners to comprehend simple reading texts and monitor their own language production

203403 Chinese III

Prerequisite : 203402 Chinese II

Continuation of Chinese II, aiming at helping learners to acquire the four language skills of listening, speaking, reading, and writing needed for common social interactions in different situations. Introduction of more Chinese characters and more complicated grammatical structures to enable the learners to comprehend simple reading texts and monitor their own language production

3(3-0-6)

3(3-0-6)

3(3-0-6)

Prerequisite : 203403 Chinese III or Consent of School

A course for intermediate level learners of Chinese who want to acquire linguistic skills in Chinese business communication and to improve their ability to use the language for business and trade interactions in different situations, including business contacts, business visits, business transactions, etc. by learning Chinese language structure, useful daily and common expressions in a business setting, background knowledge information about Chinese and international business culture and etiquette, etc.

203405 Business Chinese II

Prerequisite : 203404 Business Chinese I or Consent of School

Continuation of Business Chinese I, aiming at helping learners to acquire language skills needed for business and trade interactions in different situations, including business banquets, business trip-related activities, negotiating business transactions, business cooperation, international trade fairs, etc. Introduction to more complicated Chinese grammar, business culture and appropriate etiquette needed for effective and appropriate communication

3. Japanese Lanaguage

203411 Japanese I

Prerequisite : None

Basic communication in Japanese, practice in pronunciation, conversation using basic vocabulary and expressions, introduction to hiragana, katakana and kanji characters

203412 Japanese II

Prerequisite : 203411 Japanese I

Listening and speaking in Japanese, vocabulary and expressions used in daily life learning to read and write kanji characters

3(3-0-6)

3(3-0-6)

3(3-0-6)

203413 Japanese III

Prerequisite : 203412 Japanese II

Communication in the workplace using polite forms, practice in reading writing short passages and further study of kanji characters

203414 Business Japanese I

Prerequisite : 203413 Japanese III or Consent of School

Japanese business communication with emphasis on the four skills, practice using Japanese in business simulations, development of vocabulary and skills in business English

203415 Business Japanese II

Prerequisite : 203414 Business Japanese I or Consent of School

Development of Japanese language use in business planning such as in marketing, production, organization and management, and finance, ability to read and write business materials

3(3-0-6)

3(3-0-6)