

Course Code and Course Title	English SCIN 203 Internship for Innovation and Entrepreneurship I				
course code and course fille					
	Thai วทนว ๒๐๓ การผกปฏบตงาน และการศกษาดูงานเสรมสราง				
	ประสบการณ์ทางนวัตกรรม และวิสาหกิจ ๑				
Number of Credits	3 (0-9-3)				
Curriculum and Course Type	Program of Bachelor's Degree Program in Science and Technology				
	(International Program, Multidisciplinary Program)				
	Course Type Specific Courses				
Course Coordinator	Assoc. Prof. Kanyaratt Supaibulwatana, Ph.D.				
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	University, 272 Rama VI Road, Ratchathewi, Bangkok 10400				
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Semester/Year of Study	Academic Year 2022 First Semester (1/2022) / Third Year				
Prerequisite	None				
Co-requisite	None				
Day/Time/Study Site Location	- Wednesday / 13.00 – 16.00 h onsite (online, occasionally)				
	- Date & times (special training for employability and future skills)				
	as mentioned in the course schedule, as condition of pre-course				
	schedule. Appointment for class is possibly modified (TBA).				
	Faculty of Science, Mahidol University, Payathai Campus				
Date of Latest Revision	3 July 2023				

Course Learning Outcomes (CLOs)

After successful completion of this course, students are able to

- 1. Explain the concept of innovation and entrepreneurship.
- 2. Understand the useful of science and technology in creating of innovation and understand the production and problem that happened.
- 3. Working with team and inspect activities from the best practice, failure or mistake of team work.
- 4. Assess the benefits, opportunities, and challenges of innovator in professional way. The employability skills and future skills would be emphasized.
- 5. Practice skills of critical thinking, create and analyze question, solve problem, discussion and presentation.

Course Description

Principles and process of field study and field professional practicum on management of public R&D organizations and private enterprises; invention and quality product development; innovation



management of community enterprise and community business; entrepreneurship effect on community, economic and public society; evaluation; hold a seminar to report the results of internship program.

Credit Hours / Trimester

Theory	Addition Class	Laboratory/Field trip/	Self-study	
(Hours)	(Hours)	Internship/Conference (Hours)	(Hours)	
	Onside, hybrid and	135 Hours/Semester	45 Hours/Semester	
-	online webinar	(9 Hours x 15 Weeks)	(3 Hours x 15 Weeks)	
	(occasionally)			

Number of Hours per Week for Individual Advice

3 hours per week or student requirement during prescribed date and time

Evaluation of the CLOs

Course Learning Outcomes		Measureme			
		Class Attendance,	Written	Class	Weight
	Course Learning Outcomes	Participation and	Exam /	Project	(%)
		Behavior in Class	tests		
CLO1	Experience and understand real	15%	-	15%	30%
	working situation from the field trip /				
	industrial plant studies				
CLO2	Analyze cases concerning creative	25%	15%	10%	50%
	thinking and innovation from training				
	and workshop				
CLO3	Collaboratively conduct projects on	10%	-	10%	20%
	topics of field trip/internship				
	Total	70%	-	30%	100%

Measurement and evaluation

After completion of the evaluation process each student is assigned a criterion-referenced grade (as shown in the table below). Evaluation and achievement will be justifying according to Faculty and University code, conducted by grading system of A, B+, B, C+, C, D and F. To pass this course, student must earn a grade of a least D.

Total Percentage	Below 50	50-		60-	65-	70-	75-	00 100
of Evaluation		54.99	55-59.99	64.99	69.99	74.99	79.99	80-100
Grade	F	D	D+	С	C+	В	B+	А



Teaching staff & Coordinator:

Code	Name	Email
KS	Assoc.Prof. Dr. Kanyaratt Supaibulwatana	Kanyaratt.sup@mahidol.ac.th
	(Course Coordinator)	
	N.107, N. Bld. (MUSC-Payathai)	
AR	Assist.Prof. Dr. Adisak Romsang	adisak.rom@mahidol.ac.th
	K.610, K. Bld. (MUSC-Payathai)	
KB	Mr. Kanchit Boonruang	kanchit.boo@mahidol.ac.th
	Stang Mongkolsuk Library and Information Division	
SA	Assist.Prof. Dr. Somkid Amornsamankul	somkid.amo@mahidol.ac.th
	M.204/5, M. Bld. (MUSC-Payathai)	
SU	Assist.Prof. Dr. Suntaree Unhapipat	suntaree.unh@mahidol.ac.th
	B.205/1, B. Bld. (MUSC-Payathai)	
WL	Dr. Wasakorn Laesanklang	wasakorn.lae@mahidol.ac.th
	B.203/1, B. Bld. (MUSC-Payathai)	
WT	Assoc.Prof. Dr. Wannapong Triampo	Wannapong.tri@mahidol.ac.th
	R.3/1, SC. Bld. (MUSC-Salaya)	
NS	Ms. Nathayanan Somphod (B.Sc. program coordinator)	nathayanan.som@mahidol.ac.th
BH	Banpot Horbanluekit	
	Invited Speakers from NSTDA	
	Invited Speakers from private company and other	
	organizations	



Degree 🗹 Bachelor 🗆 Master 🗆 Doctoral Faculty of Science

	Date	Торіс	Number		
No.			Lecture /	Lab./	Instructor
			Conference	Workshop	
	20 Jul to	Part 1: Training and Workshop	Lecture	es and	
	3 Aug 2023		Works	hops	
		10.00-12.00 / 13.30-15.30			
		- Introduction and class assignment of	_		1/2
1	10 Jul 2023	internship program	5	-	KS
		- Specification and skills require for field			
		training and working experiences			
2	11 Jul 2023	10.00-12.00 / 13.30-15.30	2	3	KS
		Important of PDPA			_
		10.00-12.00		-	
3		Using Spreadsheet Functions to manage	2		SA
	12 Jul 2023	data			
4		13.30-15.30	2	-	SU
		Essential Descriptive Statistics			
5		10.00-12.00	2	-	SU
		Essential Inferential Statistics			
	13 Jul 2023	13.30-15.30	_		
6		Fundamental and basic of optimization	2	-	WL
		problems			
-		10.00-12.00			
(Using Excel solver to solve optimization	2	-	WL
	14 Jul 2023	problems			
8		13.30-15.30	2	-	SA
9	17 Jul 2023	09.00-12.00 / 15.50-16.50	6	-	AR
		Occupational nealth and safety – Ons			
10	18 Jul 2023	09.00-12.00 / 13.30-16.30	6	-	AR
10		Occupational Health and Safety – OHS			
		10.00-12.00 / 13.30-15.30			
11		Industrial innovation concept (TIME):			
	19 Jul 2023	A Management tools for formulating of			
		innovation-driven corporate strategies.	5	-	BH
		analyzing market demands and evaluating			
		enterprise technology capabilities.			



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			Conference	Workshop	
	20 Jul to	Part 1. Training and Workshop	Lecture	es and	
	3 Aug 2023		Works		
		10.00-12.00		2	KC
12	20 Jul 2023	Introduction of SPACE_F Program and	-	Z	C3
		Startup company			
		10.00-12.00 / 13.30-15.30			
		Design of production structures to suit			
13	21 Jul 2023	market demands, concept of process	5	-	BH
		standards (standardization) and production			
		efficiency indicators (Quality cost Delivery).			
	2 Aug 2022	09.00-12.00 / 13.30-16.30			
14	5 AUg 2025	Design thinking and digital fabrication	6	-	WT
		'Future skills and trend of startup'			
	ТВА	Significant concern of Plagiarism and how	2	_	КВ
15		check plagiarism with "Turn It In" program	۷.		ND
	Sep - Nov 2023	Part 2: Field Trip & Internship	Field Trip & Internship		
	ТРА	Field Trip 1	0	3	KS
16	Wednesday 13.00 – 16.00 h	Conclusion and discussion – Lesson	1	0	KS
		Learn from Field trip 1			105
	ТВА	Field trips 2	0	3	KS
17	Wednesday 13.00 – 16.00 h	Conclusion and discussion – Lesson	1	0	KC
		Learn from Field trip 2	L	0	C3
	ТВА	Field trips 3	0	3	KS
10	Wednesday				
18	13.00 – 16.00 h	Conclusion and discussion – Lesson	1	0	KS
		Learn from Field trip 3			
19	ТВА	Internship Practice	0	12	KS
	ТВА	Conclusion of the training, workshop and	3	0	KS
20		internship program		2	
		Total	56	26	