Course Code and Course Title	English: SCIN201 Creating an Innovation Culture Thai: วทนว ๒๐๑ การสร้างวัฒนธรรมนวัตกรรม
Number of Credits	1 (1-0-2)
Curriculum and Course Type	Program of Study Bachelor's Degree Program in Science and Technology (International Program, Multidisciplinary Program) Course Type Specific course
Course Coordinator and Teaching Staff	Asst. Prof. Dr. Sitthivut Charoensutthivarakul (SC) Address: K618 Chalermphrakiat Building School of Bioinnovation and Bio-based Product Intelligence, Faculty of Science, Mahidol University Tel: 0-2201-5956 email: sitthivut.cha@mahidol.ac.th
Semester/Year of Study	Academic Year 2025 First Semester (1/2025) / 2nd Year
Prerequisite	None
Co-requisite	None
Day/Time/Study Site Location	Friday 13.30-15.00 Faculty of Science, Mahidol University, Salaya Campus
Date of Latest Revision	18 July 2025

Course Learning Outcomes (CLOs)

After successful completion of this course, students are able to

CLO 1 Gain basic idea about innovation, innovation cycle and value in innovation

CLO 2 Understand concept in culture and innovation

CLO 3 Create innovation mindset and strategy

CLO 4 Lead and manage innovative culture

Objectives of Development / Revision

1. Gain basic idea about innovation, innovation cycle and value in innovation
2. Understand concept in culture and innovation
3. Create innovation mindset and strategy
4. Lead and manage innovative culture

Course Description

Students will be inspired with concepts of innovative culture creation by introducing the students to innovation, innovation cycle and how to create value out of the innovative ideas. Innovative culture concepts will be added to shape student's mindset. Case study about innovation is a big part of the class which will be discussed to understand an innovation strategy. One of the main objectives is to create leadership for innovative culture and learn how to manage the culture.

Credit Hours / Trimester

Theory (Hours)	Addition Class (Hours)	Laboratory/Field trip/ Internship (Hours)	Self-study (Hours)
15 Hours/Semester (1.5 Hours x 10 Weeks)	-	-	30 Hours/Semester (2 Hours x 15 Weeks)

Number of Hours per Week for Individual Advice

1 hour per week by appointment at **K618** Faculty of Science, Mahidol University, Phyathai Campus or online via https://mahidol.webex.com/meet/sitthivut.cha

Evaluation of the CLOs

Course Learning Outcomes	Measurement Method			Weight (%)
	Class Attendance, Participation and Behavior in Class	Written Exam	Home work/Project	
CLO1 Gain basic idea about innovation, innovation cycle and value in innovation	5%	10%	-	10%
CLO2 Understand concept in culture and innovation	5%	10%	-	10%
CLO3 Create innovation mindset and strategy	10%	-	25%	35%
CLO4 Lead and manage innovative culture	10%	-	25%	35%
Total	**30%**	**20%**	**50%**	**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 of Evaluation	Below 49.5	49.5-54.5	54.5-59.5	59.5-64.5	64.5-69.5	69.5-74.5	74.5-79.5	79.5-100
Grade	F	D	D+	C	C+	B	B+	A

Stats: (1/2024, No. student = 5); A = 80%, B+ = 20%

(1/2023, No. student = 33); A = 73%, B+ = 12%, B = 6%, C+ = 3%

(1/2022, No. student = 33); A = 30%, B+ = 30%, B = 15%, C+ = 12%

(1/2021, No. student = 19); A = 52%, B+ = 32%, B = 11%

(2/2020, No. student = 54); A = 35%, B+ = 44%, B = 11%

(1/2020, No. student = 12); A = 25%, B+ = 33%, B = 8%

Teaching Schedule 1st Semester of Academic Year 2025

Week	Date	Topic	Hour		Instructor
			Lecture	Lab	
1	8 Aug	Course introduction, Introductory innovation	1.5	0	SC
2	15 Aug	Innovation cycle, Using Innovation to Create Value	1.5	0	SC
3	22 Aug	Culture and innovation culture concepts	1.5	0	SC
4	29 Aug	Creating an Innovation Mindset, Leadership and Management to create an innovative culture	1.5	0	SC
5	5 Sep	Developing an Innovation Strategy: case study 1	1.5	0	SC
6	12 Sep	Developing an Innovation Strategy: case study 2	1.5	0	SC
7	19 Sep	Developing an Innovation Strategy: case study 3	1.5	0	SC
8	26 Sep	Developing an Innovation Strategy: case study 4	1.5	0	SC
Midterm examination (NB: No midterm exam for this course)					
9	10 Oct	No class	-	-	-
10	17 Oct	Developing an Innovation Strategy: case study 5 and Class Presentation Consultation	1.5	0	SC
11	24 Oct	No class	-	-	-
12	31 Oct	No class	-	-	-
13	7 Nov	Class Presentation	1.5	0	SC
14	14 Nov	No class	-	-	-
15	21 Nov	No class	-	-	-
16	28 Nov	No class	-	-	-
Final examination					