Faculty of Engineering

Lesson Plan

Course No.   [**316101**]

Course Title   [**ทักษะเสริมการทำงาน 1: การสำรวจ**]

[**Soft Skill 1: Exploration**]

Course Specification

Institute   [Naresuan University]

Campus/Faculty/Department   [Dept. of Electrical and Computer Engineering]

Section 1 Course General Information

1. Course No. and Title   [316101]   Title   [ทักษะเสริมการทำงาน 1: การสำรวจ]

                                                                   [Soft Skill 1: Exploration]

2. Credit   [1 (0-3-1)]

3. Course Description

ภาษาไทย = [แนะนำวิชาชีพวิศวกรรมนวัตกรรมอัจฉริยะ วิธีการเรียนรู้และการทำงาน การเรียนรู้ผ่านการตรวจสอบความสมเหตุสมผลแล้ว การจัดการส่วนบุคคล การบริหารเวลา การวางแผนการเงินขั้นพื้นฐาน ความรู้ ทักษะและทัศนคติพื้นฐานสำหรับมืออาชีพ ความรับผิดชอบทางวิชาชีพและจริยธรรม]

English = [Introduction to intelligent innovation engineering profession; how to learn and to work, validated learning; personal management, time management, basic financial planning; fundamental knowledge, skills and attitudes for professional; professional and ethical responsibilities]

4. Course Type ☑ [Mandatory] ☐ [Elective]

Program [Intelligent Innovation Engineering] Class-standing [1]

5. Semester/Academic Year [1/2022]

6. Person in charge and Instructor

[Suradet Jitprapaikulsarn]   [Person in charge]   [Contact Office EE-408 Tel. 055-96-4391]

[Suradet Jitprapaikulsarn]   [Instructor]   [Contact Office EE-408 Tel. 055-96-4391]

7. Pre-requisite (if applicable)   ☑ [None] ☐ [Specify.....................................]

8. Co-requisite (if applicable)   ☑ [None] ☐ [Specify.....................................]

9. Course Venue

[Wednesday 15.00 – 18.00 room EN 505]

10. Content Revision Date [April 20, 2023]

Section 2 Detailed course management

1. **Program Learning Outcome (PLO)**

   PLO1 [Develop devices and applications (such as IoT, Embedded Systems, etc.) that can communicate with computers]

   PLO2 [Develop devices or applications that can communicate via networks]

   PLO3 [Develop and deploy simple data analytic models for various domains such as e-commerce]

   PLO4 [Develop and deploy applications that utilize modern artificial intelligence concepts such as machine learning]

   PLO5 [Implement applications that utilize modern computing technology such as cloud computing, blockchain, etc.]

   PLO6 [Develop applications capable of handling massive amounts of data (such as big data)]

   PLO7 [Innovatively develop modern applications for people such as smart energy, smart environment, smart economics, smart transportation, smart city, smart health etc.]

   PLO8 [Think entrepreneurially. Develop a business plan for starting a business]

   PLO9 [Transfer knowledge and skills to others]

   PLO10 [Collaborate with others and be a smart team member or leader, and manage projects]

   PLO11 [Initiate learning by themselves and continue to pursue new knowledge, and self-improvement]

   PLO12 [Think systematically, creatively, or innovatively]

   PLO13 [Act with growth mindset]

   PLO14 [Behave like a responsible, disciplined, ethical engineer and citizen]

Program Learning Outcome													
1	2	3	4	5	6	7	8	9	10	11	12	13	14
								●		●	●	●	●

2. **Course Learning outcome (CLO)**

   CLO1 [Demonstrate punctuality and reliability for class attending and work submission]

   CLO2 [Discuss impacts of utilizing computer technology from the social and economic perspectives]

   CLO3 [Identify the importance of self-improvement and living a meaningful life]

   CLO4 [Identify the elements needed to solve problems using computers]

   CLO5 [Give and receive constructive feedback with open-mind to improve teamwork]

   CLO6 [Analyze and process data to find solutions]

   CLO7 [Communicate according to contexts]

3. **CLO & PLO mapping**

CLOs	PLOs	Skills	
		GLO	SSLO
1	14	✔	
2	12		✔
3	11	✔	
4	12		✔
5	13	✔	
6	12	✔	
7	9	✔	

4. Lesson Plan

CLO	Week	Topic	TLO (Topic learning outcome)		Teaching Method	Assessment	Instructor
			GLO	SSLO			
1 – 7	1	Introducing IIE program and this course	✓		• Discussion • Work assignment	• Class participation • Work submission	Suradet
1 – 7	2	Goal setting	✓		Centenary celebration	• Class participation • Work submission	Suradet
1 – 7	3	Time Management	✓		Context switching game	• Class participation • Work submission	Suradet
1 – 7	4	Habit cycle	✓		• Lecture • Discussion • Work assignment	• Class participation • Work submission	Suradet
1 – 7	5	Career Exploration: Developer	✓		• Job Search	• Work submission	Suradet
1 – 7	6	Career Exploration: Designer	✓		• Job Search	• Work submission	Suradet
1 – 7	7	Career Exploration: Cybersecurity	✓		• Job Search	• Work submission	Suradet
-	8	Midterm Exam					
1 – 7	9	Career Exploration: Business and Sales	✓		• Job Search	• Work submission	Suradet
1 – 7	10	Career Exploration: Intelligent System	✓		• Job Search	• Work submission	Suradet

CLO	Week	Topic	TLO (Topic learning outcome)		Teaching Method	Assessment	Instructor
			GLO	SSLO			
1 – 7	11	Career Exploration: Entrepreneur	✔		• Job Search	• Work submission	Suradet
1 – 7	12	Basic Financial Planning	✔		• Retirement Plan	• Work submission	Suradet
1 – 7	13	Validated Learning	✔		• Retrospective	• Work submission	Suradet
1 – 7	14	Attributes of Professionals	✔		• Internet Search	• Work submission	Suradet
1 – 7	15	Ethics	✔		• Computer Ethics	• Work submission	Suradet
1 – 7	16	Reflection	✔		• Discussion	• Work submission	Suradet
	17	Final Exam					

5. Course Materials

    [Job Finding sites]

Section 3 Course Assessment

1. Course Learning Outcome (CLO) Assessment Plan

CLO	Assessment	Week	Proportion
1 – 7	Class participation	1 – 7, 9 – 16	30%
1 – 7	Work submission	1 – 7, 9 – 16	70%
	Total		100%

2. Grade Table

Grade	Range
A	80+
B+	75-79
B	70-74
C+	65-69
C	60-64
D+	55-59
D	50-54
F	0-49
S*	≥70%
I	Incomplete
U	Unsatisfied

Person-in-charge

(Suradet Jitprapaikulsarn)

Date April 20, 2022

Program Chair

(Suradet Jitprapaikulsarn)

Date April 20, 2022