# Senior Project 2022

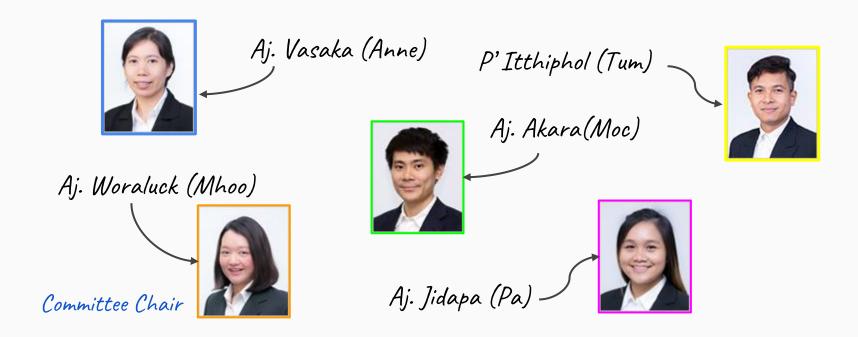
Wed Aug 24, 2022

By Senior Committee Members

### Agenda

- Intro to the Team + MyCourses
- Timeline
- Submission
- Grading
- IRB
- NSC
- Faculty Supports
  - Computer Borrowing
  - Project Fundings
  - SDG Fundings

#### Intro to the Team



### MyCourses - Our Main Communication

- Announcement
- Timeline
- Grading Criteria
- Document Submission
- Document Template



ITCS492 for Senior Project II

## Senior Project 2022: Timeline

	Date		Time	Process/Event	Venue		
	Aug. 24, 2022	WED.	1-3 pm	Senior Project Orientation 2022 by Senior Committee	MS Teams		
2	Senior Proje						
/2022	SEP. 14, 2022	WED.	2-3 pm	English Clinic #1 Information Session	ТВА		
1st /	SEP. 28, 2022	WED.	1-3 pm	MS WORD Document Formatting Workshop by Aj.Siripen	Lab 104		
ER	NOV. 16 and 18, 2022	WED., FRI.	1-5 pm	Reserved English Clinic #2 (to be informed by p'Ittiphol)	TBA		
Proposal Presentation							
SEMEST	OCT. 19, 2022	WED.	Before 11.55 pm	Sign-up Topic (Title) and Description	Google sheet*		
SE	NOV. 28, 2022	MON.	Before 11.55 pm	Document Submit (Until Chap 3: MyCourses upload only, NO print) *5% deduction penalty for late submission)	MyCourses		
	NOV. 30, 2022	WED.		Proposal Presentation Day	ONSITE		

<sup>\*</sup> Link for Sign-up Topic (Title) before Wed, 19 Oct 22

## Senior Project 2022: Timeline

	Date		Time	Process/Event	Venue					
	<b>Poster Exhibit</b>	ion								
	FEB. 10, 2023	FRI.	Before 11.55 pm	Upload Complete Poster (.PNG/.JPG format) and Abstract (MS Word format, No PDF)	MyCourses					
2 <sup>nd</sup> /2022	FEB. 13, 2023 MON.		2-5pm	Poster posting day	ONSITE					
/2(	FEB. 15, 2023 WE		1-4 pm	Poster Exhibition Day (Register starts from 12.30 pm @Grand Auditorium)	ONSITE					
pu.	Senior Project Defense									
SEMESTER 2	APR. 12, 2023 WED.		Electronic ver. before 12.00 pm and Printed ver. before 1.00 pm	Submit the draft documents (contain all chapters) on both - Electronic version on MyCourses before 12.00 pm (noon) - Printed version to the ICT office before 1.00 pm	MyCourses and ICT Office					
SE	APR. 19 – May 3, 2023	-	-	Senior Project Defense	ONSITE					
	MAY 2023	WED.		Submit Document for English Editing Process	TBA					

### **Proposal Document Submission**

- Due date: Monday November 28, 2022 by 11.55 PM (Bangkok Time)
- Submit the proposal up to Chapter 3 via MyCourses (PDF only)
- There will be 5% deduction *penalty* for any late submission

### Proposal Evaluation Form

#### **Proposal Presentation - Evaluation Form**

Date: Wed. 25 November 2020

Project ID: SP2020-XX

Students			Proposal Presentation (20%)				Document (20%)	
		Major	Quality of Work (5%)	Level of Progress (5%)	Presentation Language (5%)	Question & Answer (5%)	Quality (15%)	Timeliness For Offiicer Used
			Score 0 – 10	Score 0 – 10	Score 0 – 10	Score 0 - 10	Score 0 - 10	(5%)
ID 6088XXX MR. XXX XXX	1	CS						
ID 6088XXX MR. XXX XXX	2	ММ						
ID 6088XXX MR. XXX XXX	3	DB						



#### Poster Presentation

- A group of committee will evaluate your progress
- Chance to win Best Poster Awards!!
- Presentation Date:

FEB. 15, 2023

#### A: POSTER PRESENTATION (APPEARANCE)

Poster is well organized, readable, easy to follow and has a logical, clear progression of ideas, methods, and results.

#### **B:** CONTENTS

English usage

Problem statements and objectives are stated clearly

Research methodology or development framework are stated clearly

Level of difficulty (technical value)

Level of progress is suitable with the timeline given

#### C: PRESENTATION (Verbal)

Presenters speak clearly and effectively

Presenters respond to questions effectively

### Senior Project Defense

- Due date for document submission:
  - Wed April 12, 2023, by 12PM Noon (Bangkok Time)
- Submit the document <u>via MyCourses</u> (PDF only)
- There will be 5% deduction penalty for any late submission
- Defense schedule TBA between
  - April 19, 2023 May 3, 2023

### Senior Project Evaluation Form

#### Senior Project 2021- Defense Evaluation Form



Date :Room IT										
Project ID: SP	Project ID: SP2021-00 (1)							Link for document review:	\$N∕A	
Project Title: #N/	Project Title: #N/A							Link to M5 Team Chanel:	\$N∕A	
					Senior Project Defense Criteria (20%)				Document (10%)	
	Students			Major	Quality of Work (596)	Level of Progress (596)	Presentation Language (596)	Question & Answer (596)	Completeness (7%)	Timeliness For Offiicer Used
				4	Score 0 – 10	Score 0 – 10	Score 0 – 10	Score 0 – 10	Score 0 – 10	(3%)
ID <b>#N/A</b> #N/A	\ #N/A	#N/A	#N/A	#N/A		V				
ID <b>#N/A</b> #N/A	A #N/A	#N/A	#N/A	#N/A						
ID <b>#N/A</b> #N/A	λ #N/A	#N/A	#N/A	#N/A						

#### **Evaluation Criteria**

#### ITCS491 Senior Project I

Advisor

60%

Proposal Presentation 20%

Document

20%

А	B+	В	C+	С	D+	D	F
80+	75	70	65	60	55	50	49-

#### ITCS492 Senior Project II

Advisor

60%

Poster Exhibition

10%

Defense

20%

Document

10%

Extra

10%

(Technical Report/Conference/ or Final-round contest)

# **IRB**

**Institutional Review Board** 

#### What is the IRB?

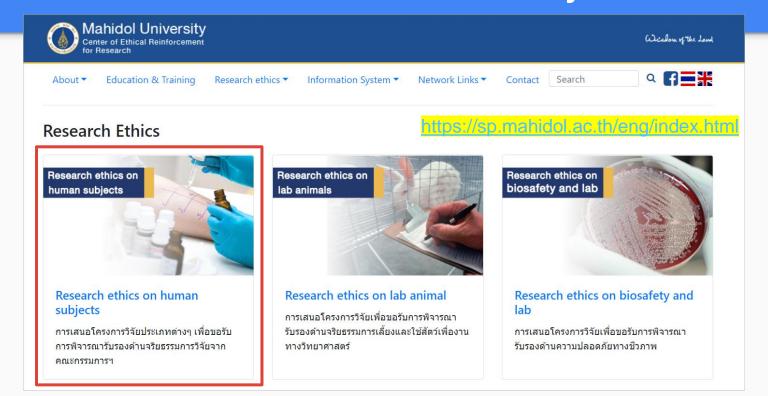
- An institutional review board (IRB), also known as an independent ethics committee (IEC) is a type of committee that applies research ethics by reviewing the methods proposed for research to ensure that they are ethical, especially when involved human subjects [Wiki]
- A key goal of IRBs is to protect human subjects from physical or psychological harm



#### Do I need and not need for IRB?

- If the data collection or survey is for internal uses and analysis
  - → No need for IRB approval [ref]
- If your project is involved in human research, lab animal, biosafety and lab
  - → Need IRB approval

### Research ethics on Human subjects



### Self Assessment

https://sp.mahidol.ac.th/th/ethics-human/assessment.html Self-Assessment for Human Subject Research แบบประเมินตนเองด้านจริยธรรมการวิจัยในคน - Human Subject Research ? - Exemption Review ? - Expedited Review ? - Full Board Review ?



## Type of IRB

#### https://sp.mahidol.ac.th/th/ethics-human/process.html







#### Main Process of IRB

#### This process must be completed before data collection

- 1. Do Self-assessment to see if you need the IRB: If yes, what type? <a href="https://sp.mahidol.ac.th/th/ethics-human/assessment.html">https://sp.mahidol.ac.th/th/ethics-human/assessment.html</a>
- 2. Read the Protocol and Process: <a href="https://sp.mahidol.ac.th/th/ethics-human/process.html">https://sp.mahidol.ac.th/th/ethics-human/process.html</a>
- 3. Prepare the documents + Certificate on Human Subject Protection Training
  - https://sp.mahidol.ac.th/th/ethics-human/form.html
- 4. Submit to MU Central-IRB (MU-CIRB), Revise, and Wait for the Result

### Before submitting IRB documents

- 1. All students who will submit the IRB approval, must attend the IRB training program or pass the online CITI program

  Note: The certificate of completion will be required upon the application.
- 2. ALL research projects must be submitted for IRB approval prior to the data collection stage.

# Certificates of Human Subject Protection Training

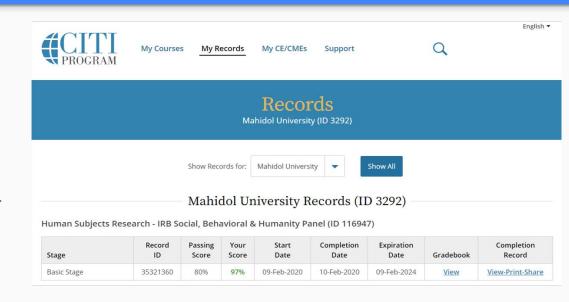
- IRB require you to have "Certificate of attendance for human subject protection training or registration in human subject protection course approved by the Faculty of Graduate Studies"
- Obtained by attending the training providence by MU Central-IRB or online learning through CITI Training

### **CITI Training**

Select "Mahidol University" as Affiliation and complete "Human Subject Research"

If you research involved other things, you may complete other related training as well

https://about.citiprogram.org/



#### Where is IRB?

- For MU, MU Central-IRB (MU-CIRB) or Mahidol University Central Institutional Review Board (MU-CIRB) will be the main committee for approval
- Located at:

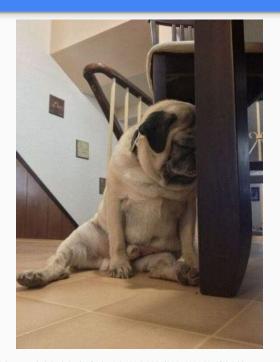
Office of the President Mahidol University, 2nd floor, 999 Phuttamonthon 4 Road, Salaya, Nakhon Pathom 73170, Thailand

Website: https://sp.mahidol.ac.th

# NSC

**National Software Contest** 

#### NSC 2023 – Has Not Yet Been Announced



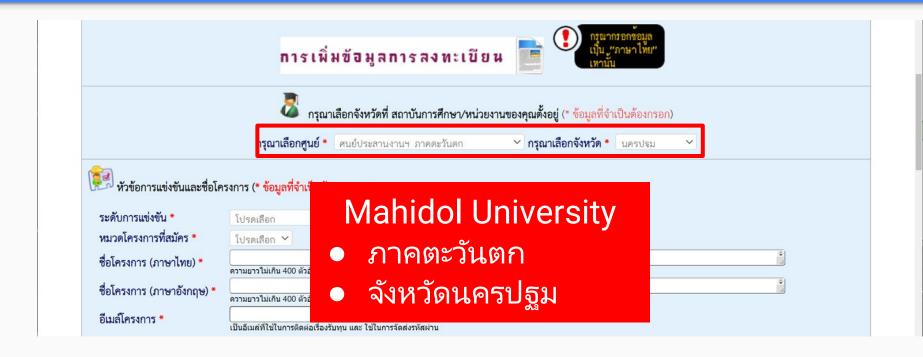
We will let you know once it has been announced.

You can see more info from the Facebook group <a href="https://www.facebook.com/groups/NSCThailand/">https://www.facebook.com/groups/NSCThailand/</a>

## NSC Typical Timeline

- Late September 2022 Submit a proposal
- Mid October 2022 Announce candidates
- Late January 2022 Submit a complete program, a report, a presentation
- Early February 2022 Presentation
- Mid February 2022 Announce finalists
- March 2022 Final competition

### NSC 2022: Registration



# Faculty Supports

# Senior Project Funding

### Senior Project Funding: What we cover

- Project related device
- Cloud services
- Web hosts
- Software assets
- Research participant renumeration. ... and more

Check the Funding Annoucement around October 2022

How to request for the funding



Student collects the receipts from the shop or service provider.

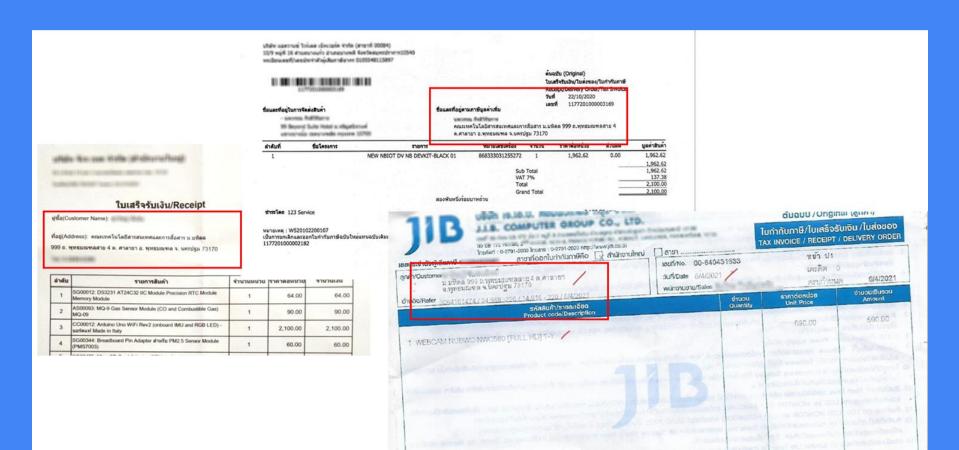
In the receipt need to include the student's name (one of the project members) with the ICT faculty address as follows;

#### (Example) Mr. Deejai Jaidee

Faculty of ICT, Mahidol University 999 Phuttamonthon 4 Road, Salaya, Nakhon Pathom, 73170 Thailand.

#### *(ตัวอย่าง*) นายดีใจ ใจดี

คณะเทคโนโลยีสารสนเทศและการสื่อสาร ม.มหิคล 999 ถ. พุทธมณฑลสาย 4 ฅ. ศาลายา อ. พุทธมณฑล จ. นครปฐม 73170



How to request for the funding

Download the funding application form via this link:

https://bit.ly/spfunding





Submit following required documents

- Form (need the advisor's signature)
- Project Abstract
- •Receipt(s)

Via this link https://bit.ly/SPfundF



### **Funding** application submit timeline



Round I	Application submit within	Consideration result announce				
1	I Nov.	30 Nov.				
2	l Dec.	31 Dec.				
3	l Jan.	31 Jun.				
4	l Feb.	28 Feb.				
5	l Mar.	31 Mar.				
6	l Apr.	30 Apr				
7	l May.	31 May.				
8	l Jun.	30 Jun.				
9	l Jul.	31 Jul.				





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### Senior Project Funding

- Maximum 2,000 baht per group
- You can submit the form only ONE times
- In case of the funding request is more than 2,000 THB and up to 4,000 THB (in Maximus), the request will be kept to consider in round 9 (July).
  - The date of the receipts must be AFTER the date in the announcement
  - Spend money and ask for receipts after Nov 2022 (to be safe)

## Senior Project Computer Support



- One computer per one group
- Please specify your decision and tell your advisor to inform us in the form by 24 Aug 2022 (Today)
  - Option 1: Don't need a faculty computer
  - Option 2: Need the faculty computer with or without extra request

ICT SENIOR PROJECT GRANT for Sustainable Development Goals related projects (17SDGs)

Academic Year 2022





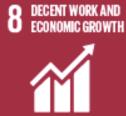
































#### **Grant Information**

- 5 grants for 5 projects
- 10,000 baht / a project, the grant will be paid 2 times after project presentation:
  - \* 1st project presentation: 5,000 baht
  - \* 2nd project presentation: 5,000 baht
- Candidate Qualifications:
  - 4th year students
  - In the process of working on a senior project

#### Proposal and Progress Presentation: 1st

The grant proposal should meet the following criteria:

- 1. The completeness of the grant proposal: should be comprehensive and concise
- 2. The advantages of the project: support at least 1 of 17 SDGs and be beneficial to the society in 4 levels: Partnership, Mutual Benefit, Scholarship, and Social impact
- 3. Creativity: interesting project title, outstanding or innovative idea
- 4. Project possibility: should be completed as specified in the project timeline

# Proposal and Progress Presentation: 2nd

The progress of the project will be considered according to the following criteria:

- 1. Completeness of the project: should be comprehensive and concise
- Presentation: the problem statement, obstacles, expected solution, and methodology of the project should be presented. The project must be beneficial to the society in 4 levels: Partnership, Mutual Benefit, Scholarship, and Social impact.

# **Submit Grant Proposal**

- Submit the grant proposal and other related documents via My Courses website (ITCS 491 Senior Project 1)
- Application Timeline (Tentatively)

Activity	Date
Grant Proposal Submission	Around September 2022
Candidates Announcement	Around October 2022
1st project presentation and grant awarding	Around November 2022
2 <sup>nd</sup> project presentation and grant awarding	Around March 2023

### Example: Previous Senior Project Grant



ICT Mahidol offered 3 SDG Senior Project Grants to its 4th year students

February 22, 2021

On 22 February 2021 – The Faculty of Information and Communication Technology, Mahidol University (ICT Mahidol), offered Senior Project Grants to the groups of 4<sup>th</sup> year students whose senior projects are related to arts and culture conservation. The grants aimed to encourage students to realize the importance of arts and culture, as well as to apply ICT knowledge to various activities, especially, arts and cultural activities. This year, 8 groups applied for the grants and the following 3 groups got awarded:

- ImROB: Improving Reservoir Operation of the Bhumibol Dam through an Application of Inflows Prediction and Water Release Optimization by Mr. Napadol Bangjing, Mr. Chinapat Tewapitakporn and Mr. Tanatip Tumsatiansuk, under supervision of Dr. Jidapa Kraisangka
- WingBeats: A Deep Learning-based Mosquito Species and Gender Classification System by Borvorntat Nirandmongkol, Miss Chanaporn Chaisumritchoke and Mr. Tup Kongthaworn, under supervision of Professor Dr. Peter Fereed Haddawy
- DentME by Mr. Teerakarn Boriboonsub, Mr. Terapat cChansai and Mr. Ruksit Rojpaisarnkit, under supervision of Asst. Prof. Dr. Suppawong Tuarob

#### 5 grants (10,000 each)

https://www.ict.mahidol.ac.th/th/?p=29041

3 Senior Project Grants (10,00THB / each):

### Example: Previous Senior Project Grant







3 grants (10,000 each)

#### Read the interviews:

https://www.ict.mahidol.ac.th/th/?p=25283 https://www.ict.mahidol.ac.th/th/?p=25276 https://www.ict.mahidol.ac.th/th/?p=25262

#### Contact Person

- P' Itthiphol (P'Tum)
- Email: <a href="mailto:itthiphol.mak@mahidol.ac.th">itthiphol.mak@mahidol.ac.th</a>
- Call: 089-8088399

# Q&A

# Contact Us (Email!)



vasaka.vis@mahidol.edu

itthiphol.mak@mahidol.ac.th



woraluck.won@mahidol.ac.th





akara.sup@mahidol.ed



jidapa.kra@mahidol.edu

#### Senior Project Orientation 2022 Evaluation Link

https://bit.ly/ 3Ta4N1Q

