

Senior Project 2015

ITS400/CSS400 Project Development (Semester 1)

ITS403/CSS403 Senior Project (Semester 2)

<http://ict.siit.tu.ac.th/moodle/>

Topics for Today

- (1) About Senior Project
- (2) Expectations of Senior Students
- (3) Special Activities: ITPE, ICPC
- (4) Selecting Groups, Topics and Advisors

August	Select and plan project
September	Project Concept
October	Requirements Spec.
November	Mockup
December	Architecture Design, Prototype
January	Detailed Design
February	Implement
March	Demo Day
April	Testing and fixing
May	System Delivery

Deliverables and Presentations

Semester 1

Deliverable 1: Project Concept

Deliverable 2: Requirements Specification

Deliverable 3: Design Specification (Arch. Design only)

Presentation 1: Project Concept

Presentation 2: Mockup

Presentation 3: Prototype

Semester 2

Deliverable 3: Design Specification (incl. Detailed Design)

Deliverable 4: System Manual

Presentation 4: Progress

Presentation 5: Demo Day

Presentation 6: Final

and System Delivery

How to get an A

(or How to avoid an F)

- Semester 1 (1 credit)
 - 40% Deliverables [advisor, committee]
 - 45% Presentations [committee]
 - 5% Effort [advisor]
 - 10% Attendance [coordinator]

 - Penalties: incorrect submissions, missing deadlines, inappropriate behaviour, ...

How to get an A

(or How to avoid an F)

- Semester 2 (6 credits)
 - Deliverables, Presentations and Source
 - Attendance at Bangkadi and seminars
 - Possible bonus: paper accepted in international conference
 - Possible bonus: 1st, 2nd or 3rd prize in reputable competition
 - Possible bonus: outstanding effort judged by multiple faculty members

Attendance

- Semester 1
 - Weekly meetings with advisor
 - Seminars
 - At least 1 day a week at Bangkadi on senior project
- Semester 2
 - Attend School and SIIT seminars
 - Weekly meetings with advisor
 - At least 3 days a week at Bangkadi on senior project
 - Fingerprint attendance will be recorded!

Seminars

- Friday 9am in BKD3207
 - Attendance is mandatory
 - Some weeks may change
- Presentations by faculty: how to be successful in project and upon graduation
- Practice presentations by students:
 - Short presentations to practice for final proposal presentation

Senior Project Room

- 4th floor of IT/MT Building
- Other locations:
 - Network Lab, Mac Lab when not in use
 - AI3 Lab when not in use
- Fingerprint for entry
 - Register with ICT Technician in Network lab next week
- Senior project students only
- Your room ... your responsibility

What Resources Are Available?

- Mobile phones and tablets
- Wireless routers and sensors
- Raspberry Pi's
- iOS Developer University Program
- Microsoft Dreamspark
- Sound room and audio equipment
- Robots
- Home automation system
- ICT Server: Web, PHP, MySQL

Materials and Supplies

- Budget: 8000 Baht per student
- Equipment, conference registration
- “Tax Invoice” or “Receipt” must be to “Sirindhorn International Institute of Technology, Thammasat University”
- Check with advisor and ICT secretaries before purchase

Exchange and Extended Training

- Only take Project Development in semester 1
- Should form a group with other exchange/training students
- Let me know if you are on exchange/training track

Questions so far?

Expectations of Senior Students

Innovative

“You only taught us how to do X; so I can't do Y”

Independent

“Teacher, can you show me how to open a file?”

Hard Working

“Ah, senior project. No lectures – so easy! We'll come to meetings unprepared, use excuses like 'we tried, but it didn't compile', and then copy code and report from last year.”

Organised

“We thought we'd complete all the coding in the last week of exams, but then I got sick and now we have nothing.”

Responsible

“My partner didn't do anything on the project, so our software doesn't work”

Professional

Advisor reading your report:

“Spelling mistakes everywhere, inconsistent formatting, paragraphs copied direct from websites, pictures make no sense, they forgot to include an entire section, even spelt their own name wrong. A 10-year old could do better than this.”

Punctual

“So sorry we missed the meeting yesterday, ... [traffic jam | car broke down | slept in | I wasn't feeling well | My dog wasn't feeling well | ...]”

Honest

“I wrote it all myself. Its just a coincidence that its identical to the code on www.freecodeforstudentswhocantprogram.com”

Expectations of Senior Students

- Innovative
- Independent
- Hard working
- Organised
- Responsible
- Professional
- Punctual
- Honest

Other Activities and Events

ITPE

- Information Technology Professional Exam
 - Japan, Thailand, Malaysia, Vietnam, ...
- <http://www.itpec.org/>
- Date: end of October (To be confirmed)
 - Mandatory for senior students
 - Bonus for good scores
 - Practice session after midterms

ACM-ICPC

- International Programming Contest
 - Thailand regional, Thailand national, Asian, World
- <http://www.ict.mahidol.ac.th/acmicpc2015/>

Selecting Senior Project Topics

What to do now?

- Form a group
 - 2 students, can mix IT and CS
 - Exchange students work together
- Tell me you group members TODAY
- Browse offered topics
 - Talk to potential advisors
- Select list of preferred topics online
 - 2 topics from each faculty member
- Deadline: Wednesday 19 August, 12noon

How do we allocate topics?

- Allocate 1st preference to each group, based on group GPA
- If your 1st preference is unavailable, then your 2nd preference will be considered **after all other groups 1st preference**
- And so on ...
- Topics/advisors are for both semesters

Example

- Group A (3.50): **CN3**, TT1, SG2, ...
- Group B (3.00): ~~CN3~~, ~~SG2~~, **TT1**, ...
- Group C (2.50): **SG2**, CN3, KW2, ...
- Group D (2.00): ~~CN3~~, **PA4**, SU4, ...

Summary

- Browse schedule and instructions at:
 - <http://ict.siit.tu.ac.th/moodle/>
- Select your topics
- Once topics allocated, work with advisor on details of project

Next week: Project Concept
and ICT Computer Resources