

Senior Project 2014

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, Engineering Training
- (4) Selecting Groups, Topics and Advisors

August	Plan project
September	Plan project
October	Write proposal
November	Gather background
December	Design
January	Implement
February	Implement
March	Implement
April	Testing and fixing
May	Write report

Milestones and Deliverables

Semester 1

Midterm Exam Week: Draft proposal due

Final Exam Week: Final proposal due
Proposal presentations

Semester 2

Midterm Exam Week: Draft report due
Presentations

Final Exam Week: Final report due
Code due
Presentations

How to get an A

(or How to avoid an F)

- Semester 1 (1 credit)
 - 20% Evaluation of draft proposal by advisor and selected faculty
 - 30% Evaluation of final proposal, effort and quality of work by advisor
 - 30% Evaluation of final presentation by 3 faculty
 - 20% Seminars: attendance, activities
 - Penalties: incorrect submissions, missing deadlines, inappropriate behaviour, ...

How to get an A

(or How to avoid an F)

- Semester 2 (6 credits)
 - Attendance at Bangkadi and seminars
 - Evaluation of midterm report (advisor) and presentation (3 faculty)
 - Evaluation of final report, effort, quality (advisor) and presentation (3 faculty)
 - Bonus: paper accepted in international conference
 - Bonus: 1st, 2nd or 3rd prize in reputable competition

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

- Monday 9am in BKD2506
 - 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

- Ground 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 this 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/>
- Sunday 26 October 2014
 - Mandatory for senior students
 - Bonus for good scores
 - Practice session on 13 October

ACM-ICPC

- International Programming Contest
 - Thailand regional, Thailand national, Asian, World
- Presentation 12noon 18 August in BKD3207

Young Global Engineering Training

- Career training, especially for employment in Japanese companies
- 8 weeks of lectures and workshops
 - Japanese culture and language, employment opportunities in Japan, preparing applications, ...
 - Monday 2:30-4pm, BKD3507, starting 18 Aug
 - Mandatory for students applying for exchange/visits in Japan

Selecting Senior Project Topics

What to do now?

- Form a group
 - 2 students, can mix IT and CS
- Register your group and group name online
- Browse offered topics
 - Talk to potential advisors
- Select list of preferred topics online
 - 2 topics from each faculty member
 - You must finalize your selection
- Deadline: Friday 22 August, 12noon

Open Topics

- Students propose a topic after discussing with faculty member
- Each faculty member will have maximum of 1 open topic
- Students **MUST** submit Open Topic Form (no more than 2 forms)

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/>
- Register your group
- Select your topics
- Once topics allocated, work with advisor on details of project

Next week: ICT Computer Resources