Engineering Competency I (PBL)
UT-mate code: 3722-126

How to start

GMSI Project Lecturer
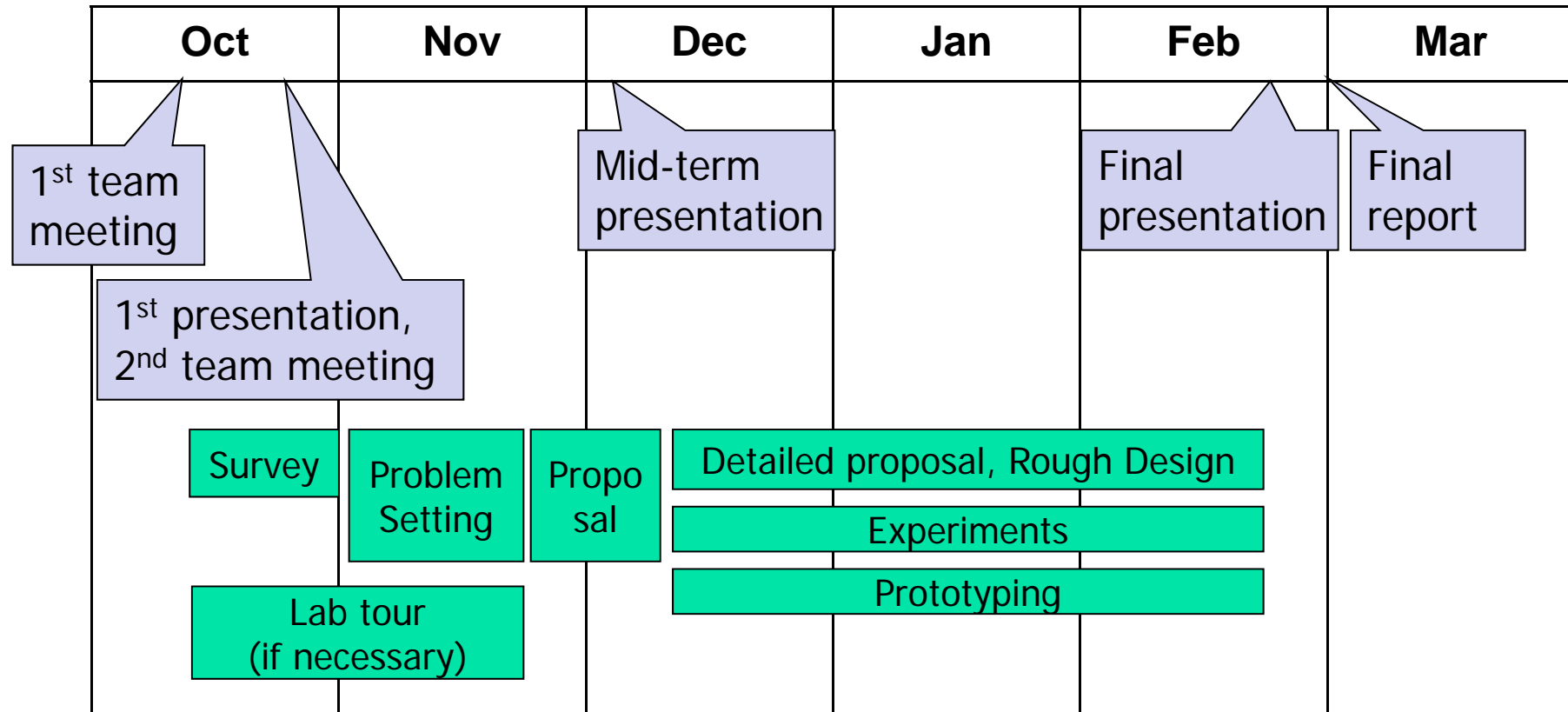
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Lectures

- **Thursday, Oct. 11, 16:30-18:10** — Today
  - Guidance
  - PBL examples of last year (15 min. x 4 teams)
  - 30 min. team discussion

- **Thursday, Oct. 18, 16:30-18:10**
  - First presentation **((10 min.+ 5 min. Q&A) x 4 teams)**
  - 40 min. team discussion

- **Thursday, Dec. 6, 16:30-18:10**
  - Mid-term presentation (10 min. presentation)

- **Thursday, Feb. 22, time TBD**
  - 15min. presentation in front of invited guests *Award*

- **March., Final report (4-5 pages.)** Deadline：1st March 2013

Schedule

Oct	Nov	Dec	Jan	Feb	Mar

1st team meeting

1st presentation, 2nd team meeting

Mid-term presentation

Final presentation

Final report

Survey

Problem Setting

Proposal

Lab tour (if necessary)

Detailed proposal, Rough Design

Experiments

Prototyping

- Please plan at least one meeting / 1-2 weeks
- Facilitators can be invited to team meetings (depending on the contents)
- Please keep updating your facilitators with the progress
  (If you stop working with the team, you cannot get the credit（未受験扱い）)

Budget

- Budget: about **20万円($2560) /team**

- Items:
    - Consumables for prototyping and experiments
    - Domestic travel for lab tours and survey
    - Books

- Team members have to plan the use of the budget (You don't need to use all the budget.)

- Please, get permissions from your facilitators **in advance,** and fill out required forms
(The facilitators will inform you of the details of the forms)

First presentation

- **Thursday, Oct. 18, 16:30-18:10**
  - **((10 min.+ 5 min. Q&A) x 4 teams)**

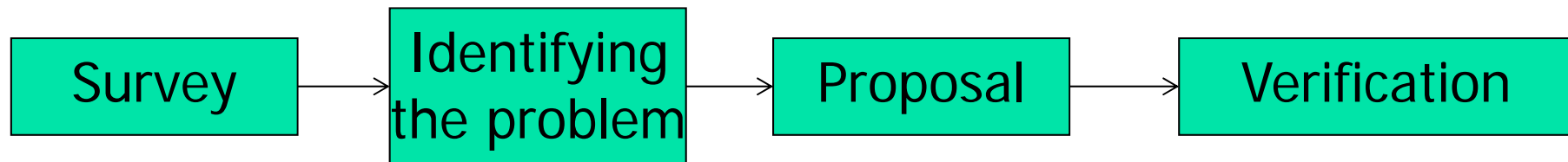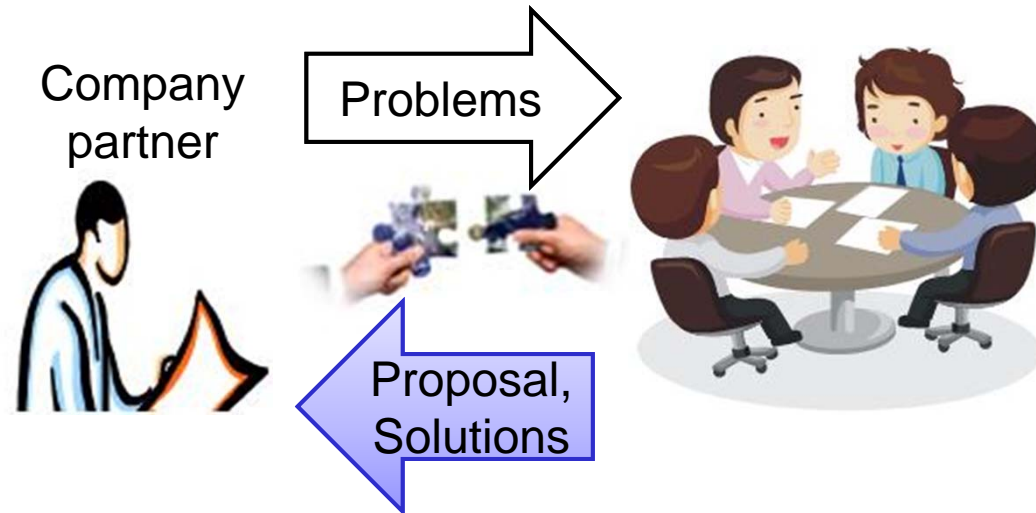 The presentation can include...

  1. Team Introduction
     (Company partner, facilitators, team members, research backgrounds of the team members, etc.)
  2. Company introduction
  3. Problems identified by the company contact
  4. *State-of-the-art work related to the problems*
  5. *How can the team members' research backgrounds be related to the problem ?*
  6. *Rough Proposal*
  7. Schedule

Every member needs to explain at least one slide !

How to start ?

Now you have 15 min.

- Self-introduction & Email exchange
- (Suggestion) Assign a role to each member.
  - For example,
    - Team Leader,
    - Responsible person for the 1st presentation & Final report,
    - Responsible person for the mid-term presentation & Budget management,
    - Responsible person for the final presentation
- Ask the company partner the details of the problems
- Assign homework to prepare the presentation and make an appointment for the next meeting

Tips

Company partner

Problems

Proposal, Solutions

| Survey | → | Identifying the problem | → | Proposal | → | Verification |

- Study the state-of-the art work
- Statistical data is a plus

- Try to somehow implement your technical competencies

- In a quantified manner
- Estimate potential social/technical impact