

1st mandatory activity: March 18th Group presentation & Seminar

- Reference article: Formal design and analysis of a gear controller. M. Lindahl, P. Pettersson, W. Yi.
- Each presentation has two sessions per group:
 - 1st session – max. 20 minutes presentation;
 - 2nd session – max. 15 minutes feedback/questions and discussion with paired group.
- Everyone in the presentation group **must participate equally** in the talk.
- The review group **must provide feedback** on the paired group's presentation during the 2nd session. Everyone in the review group **is strongly encouraged to participate equally** during the feedback process.

Group Pairing and Presentation Running Order:

- P1: G1, G10, G11
- P2: G12, G13
- P3: G2, G5
- P4: G3, G6
- P5: G4, G7
- P6: G8, G9

- **1st and 2nd sessions:** Paired group presentation & discussion starts at **9:15am**:

P2 – P6

- 9:15am – 9:35am: 1st group presentation;
- 9:35am – 9:50am: feedback from/discussion with the paired group;
- 15 mins break;
- 10:05am – 10:25am: 2nd group presentation;
- 10:25am – 10:40am: feedback from/discussion with the paired group;

P1

- 9:15am – 9:30am: G1 presentation;
- 9:30am – 9:40am: feedback from/discussion with G10 and G11;
- 5 mins break;
- 9:45am – 10:00am: G10 group presentation;
- 10:00am – 10:10am: feedback from/discussion with G1 and G11;
- 5 mins break
- 10:15am – 10:30am: G11 presentation;
- 10:30am – 10:40am: feedback from/discussion with G1 and G10;

- **3rd Session:** Share your own paired group's feedback/discussion points with the whole class:
 - 10: 50am – 10:55am : P6
 - 10:55am – 11:00am: P2
 - 11:00am – 11:05am: P3
 - 11:05am – 11:10am: P4
 - 11:10am – 11:15am: P5
 - 11:15am – 11:20am: P1

*Guidelines for presentation:
Take careful note of all check-points!*

- CP1. Model the Gear Controller System in UPPAAL: Should build gear controller automaton, gear box automaton, clutch automaton, engine automaton, interface automaton and those automata (network automata) must communicate through the shared channels. For further details, refer to the appendix of reference article.
- CP2. Specify the given requirements (properties) in UPPAAL Logics.
- CP3. The system model must be ready to run on your presentation day.
- CP4. During your presentation, you must show the demo: simulate the system model (simulation) and verify properties of the model (property verification).