CSD2301
Lab Brief

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Introduction to Labs

- 8 lab sessions (follow lab schedule)
- Experiments conducted in **groups of 2**
- Conducted using PASCO Capstone
  - Contains **step-by-step** guide
- Self-learning
  - **No briefing** before each lab (guide is very comprehensive)
  - Not to worry, there will be professional lab officers around to help if your set-up has issues.
- Individual lab assignment required per lab session

Introduction to Labs

- Attire:
  - Long pants
  - Covered shoes
  - Long hair tied up
- MUST follow the rules for attire, if not they may refuse your entry. In that case, you will be considered absent without a valid excuse.

Introduction to Labs

- After each session, everyone to submit only 1 file:
  - **PDF version** of lab assignment
    - **Strictly due** following Monday 2359 hrs
- Remember to label your file clearly with your name
  - For e.g. "Lab 1 Assignment_LinQinjie"

Assessment

- Labs component worth a total of 20% of CSD2301. **Need to pass this component in order to pass CSD2301.**

- Each lab session is worth 10 marks

  - 4 marks will be for activity/attendance, 6 marks will be for lab assignment

Assessment

- There will be **penalty for every unexcused absence**

  - If you are entirely absent from the session, you will have no marks. You will get 0 mark even if you submit a lab assignment.

- There will be **penalty for late arrival**

  - 0-10 mins late → deduct 1 mark

  - 10-20 mins late → deduct 2 marks

  - >30 mins late → deduct 4 marks (no marks for activity/attendance)

Gamification of Labs

- Pilot run of gamified labs
  - Incorporate various simple game-like elements designed to make learning more interactive, engaging, and fun
  - Each lab session will be themed around a different amusement park ride
- Get up to **2 bonus marks** per lab!
- Criteria to get bonus marks:
  - Complete a pre-survey before the first lab, and a post-survey after the last lab. Will be announced on Teams when these are ready. By completing the surveys, you agree to let us use data for research purposes.
  - Answer side quests correctly

Lab Assignment Content

1. **Main lab work**
   - Experimental data (graphs and tables etc.)
   - Your answers/comments for questions that are in the PASCO file
2. **Amusement park ride/activity**
   - Explain the physics involved in the amusement park ride/activity of the week
   - You may assume fictitious values to help in your explanation if you wish
   - About 200-300 words will do
3. **Questions and Answers**
   - Think of 2 interesting questions regarding the lab and answer them
   - Can either be related to lab set-up (for e.g. If I remove the stopper at the end, will I still get the same result?)
   - Or can be related to lab topic (for e.g. What will happen if I start the vehicle rolling at a higher point?)