

Evaluation and Grading Framework

Evaluation Breakup

Icebreaking Project : 20% (Group Exercise, duration 2 weeks)

Design Project : 60% (Group Exercise, duration 4 weeks)

End-term Exam : 20% (including attendance)

Group Composition

2 members from Computer Science and Engineering

1 member from Electrical, Electronics, Communication

1 member from either Civil Engineering or Chemical Engineering

1 member as per preference

Total: 5 members per team (due date: 20th October 2022)

Project Guide

Each team will be assigned to **one faculty members for project guidance 3 faculty member team for evaluation.**

Introduction - Icebreaking Project

Weightage : 20% (Group Exercise, due date **9th November 2022**)

Background

Students of SNIoE indulge in several activities in a class while being seated (for instance, taking notes in their physical/digital notebooks of various sizes, operating laptops, sketching in drawing books or digital devices, participate in discussions with lecturers and other students as part of class exercises, move from one part of the class to another while being seated, etc.). Students are a mix of: (i) right-handers, left-handers, and ambidextrous people and (ii) various heights, weights, proportions of limbs, etc.

Problem

However, the current chairs used in classrooms of SNIoE do not afford these activities well or are not comfortable for all kinds of students. In addition, students sometimes carry accessories other than their backpack (such as drafters, sports bag/kit, etc.) which the current design of chairs do not support carrying, and therefore, these must be placed on the floor and occupy additional floor space. Further, some chairs may not be comfortable for some people for short- or long- durations for various reasons.

Task

Your group's task is to design a new classroom chair for SNIoE that can accommodate all these and more based on the needs & aspirations of your stakeholders (users).

Evaluation - Icebreaking Project

Deliverable

Submit a project report based on your learnings from DES211, undertaking the following:

- Identify your **stakeholders (users)** and their **pain- & pleasure- points** while using the existing classroom chair (classrooms at SNIoE).
- Study and **analyse existing designs** to enlist the features they afford or do not afford (click and use images of existing classroom chairs at SNIoE to support your analysis).
- Based on the outcomes of (a) and (b), formulate a **specific problem statement that your group proposes to solve with justification**.
- Identify the associated needs and specifications for this proposed chair.
- Generate multiple, **alternative solutions (at least 10)**, evaluate these, modify them if they do not conform to the evaluation criteria and select the 3 most promising solutions. (Note: Here solutions means conceptual sketches of the proposed design)
- Document all these in a report. Since this is a team-activity, one submission per team is adequate.

The report is a group submission, but members are supposed to work on their own and periodically meet together to assess and assign work to each other. Each member is to maintain a single sheet log of activity over the two weeks, including participation in common meetings. These are to be submitted with the report and will be used to assess contribution during evaluation.