

# SGN24

## Details of Group Projects

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### Summary

1. All student participants will work in groups of 3 on a project of their choice.
2. Each group is expected to give a presentation on Tuesday Dec 24th.
3. There will be a set of mentors who will assist the groups during the two weeks.
4. The main goal is to gain experience in
  - a. Model formulation
  - b. Interdisciplinary collaboration
  - c. Presentation / Group presentations
5. We do not expect that you arrive at something that can be published - this is more of a training exercise.


### Group formation

1. Groups are expected to self-organize, keeping the following in mind:
  - a. Groups should not comprise members of the same institute.
  - b. Ideally groups should have a balance of undergrads and seniors.
  - c. Try to get a balance in terms of the backgrounds of group members.
  - d. Ideally each team should have one member with some coding experience.
  - e. IMSc participants in particular are requested to spread out across groups.
2. We expect that there will be a total of around 12 groups.
3. There will be informal sessions from 5:00 - 6:00 pm on Dec 11 & 12, when you will have a chance to meet other participants and form groups. On Dec 13, from 5:00 - 6:00 pm, we will confirm that the groups have been formed, and start preliminary project discussions.

### Discussion Sessions

#### Locations and times

1. We have allocated three rooms for discussions: the 4th floor coffee lounge, Hall 123, and the 3rd floor Lounge.

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2. In each room, we will have one mentor and one co-mentor (except in the 4th floor lounge, where there will be two sets of mentors and co-mentors).
  3. There will be 3 groups assigned to each mentor.
  4. There will be frequent discussion sessions (see schedule for timings) until Dec 20.
  5. Groups can also approach mentors and co-mentors during Tea Breaks and Lunch.

## Initial sessions

1. Each group tries to come up with a question - mentors will gauge the relevance/feasibility.
2. If groups are unable to come up with any questions, mentors can give some ideas for the starting point of a project.

## Later sessions

1. Groups will propose a model for their problem - mentors will confirm that it is reasonable.
2. If groups are unable to formulate a model, mentors will provide some pointers.
3. Groups will attempt to simulate their model - those with limited coding experience can get help during these sessions.

## Resources

1. Students can access the library and work there.
2. Between the end of the working day and dinner time, students can use the 4th floor coffee lounge for discussions.
3. If anyone requires any important printouts, please approach the volunteers.

## Presentations

1. Each group will have around 20 min (15 + 5).
2. Groups have the freedom to present in any manner that they wish.
3. At the minimum it is expected that each group explains
  - a. the fundamental question that drove the project
  - b. the rationale behind their choice of model
  - c. what they observed in their simulations
  - d. the implications of these results

