

Electronics Workshop-2

Course outline

(3-Jan-2025)

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Course outline

- Course is divided into two parts:
 - ▶ Project-1: 50% weightage (Common project)
 - ▶ Project-2: 50% weightage (Team/individual project)
- For both the projects, grading details are as follows:

		Weightage
1	Hardware + Simulation	25%
2	Viva	20%
3	Report	5%

- **IMPORTANT:** In this course, we would be following a continuous evaluation process where each faculty will keep evaluating throughout the lab sessions, based on your hardware working and the corresponding viva.

Project-1 details

- All students will work on the same project in a team of two students.
- For Project-1, you can choose your project partners.
- For Project-1, simulations should be finished before 10-January.
- You need to show and verify your calculations from TAs before you can move to the hardware part of the project.
- Evaluations will roughly happen in two phases:
 - ▶ Mid-evaluation (towards Jan-end)
 - ▶ Final evaluations (towards Feb-end)
- If you give the final hardware demo before 21-February, BONUS 1 mark will be awarded.
- 7-March is the last date for showing the final hardware demo + viva.

Project-2 details

- Project partners will be assigned randomly by the 2nd week of January.
- Students can come up with their own project ideas, however they need to get an approval by the faculties.
- Once the project partners are assigned, you can discuss among yourselves to come up with the project ideas outside lab hours.
- For project approval, students should prepare 1 page write up explaining the concept of the project, circuit diagram, and tentative component list.
- Project approval should be taken before 11-February.
- You are anytime welcome to discuss your ideas with the faculties/TAs.
- You will be assigned a mentor TA for your project by the 1st week of March.
- Project-2: 25-April is the last date for showing the final hardware demo + viva.

Guidelines for the project-2 selection

- Students should not choose a project that is too simple or too difficult.
- Project should consists of a fair number of hardware components.
- You should be able to finish the project in the span of one month approximately.

General instructions

- It is advised that simulations should be done at home, lab hours are dedicated for the hardware part.
- Both the project partners are expected to work equally.
- Viva evaluations will be separate for project partners.
- Attendance is compulsory!
- Use all the instruments carefully.
- Clean-up your table properly before leaving the lab.

Course instructors

- Dr. K Madhav Krishna
- Dr. Spandan Roy
- Dr. Arti Yardi