

# [ ] Freshers Orientation [ ]

MATRIX

[ ]  
MATRIX



*welcomes the Batch of 2025  
to IIT Guwahati :)*

# Things to keep in mind :)

- Most courses follow similar structures as previous years, seniors could help you with it.
- Spend time to understand concepts thoroughly (especially in math and cse courses), it is necessary and worth it :)
- College courses are fast-tracked: During JEE, there was time to understand your weak areas and work on it, but here, the time you get for learning a topic is very short.
- Time management is very important, unlike JEE, you will have to manage several things parallelly (apart from acads).
- Irrespective of what anyone says, acads and CPI come second only after your health :)
- You will NOT get individual attention unless you approach the professor and seek it!

# PH101

## PRE-MIDSEM PART



- Taken by 4 different profs
  - Tutorials, slides and prev year papers are enough for exams.
- 
- Pre MS part consists of mechanics, mainly Lagrangian and Hamiltonian.
  - The first quiz is easier as compared to 2nd quiz, can be solved with jee concepts as well, try to score high here.
- 
- However, do try to learn Lagrangian and Hamiltonian methods, do not rely on Newtonian mechanics, as prof(Perumal Sir) might ask for a solution using L and H, even in an objective paper.
  - Derivations are imp. Some Lagrangian and Hamiltonian ques are quite lengthy and require a thorough understanding of the derivation as well.
-

# PH101

## POST-MIDSEM PART

Tutorials, slides and prev year papers are enough for exams. However, you can refer to a book for more solved examples or for better understanding.



- Post MS→ STR and Q.M.
- 

- STR → formula based, scoring. Our prof used to teach on the blackboard, your professor may be different, so can't say.
  - STR is quite interesting too.
- 

- Q.M – You already would have seen once in Physical chem, however, this time Sir will delve deeper into this subject. Try not to keep a backlog, as profs tend to rush as the Endsem near.
- 

- Post MS part is a bit easier than pre-Midsem.
- 

- Again, here most ppl found quiz 3 easier than quiz 4.

# ME110

- Do attend the live sessions and ask questions sometimes for class participation marks.
- 

- Also a 3 credit course, the grading completely depends on the Prof / TA assigned to your lab. A lot of rote learning involved
- 

- Our division had objective questions while the other division had a subjective format.
- 

- Make sure to read through the material thoroughly and try remembering the names of the tools etc.
- 

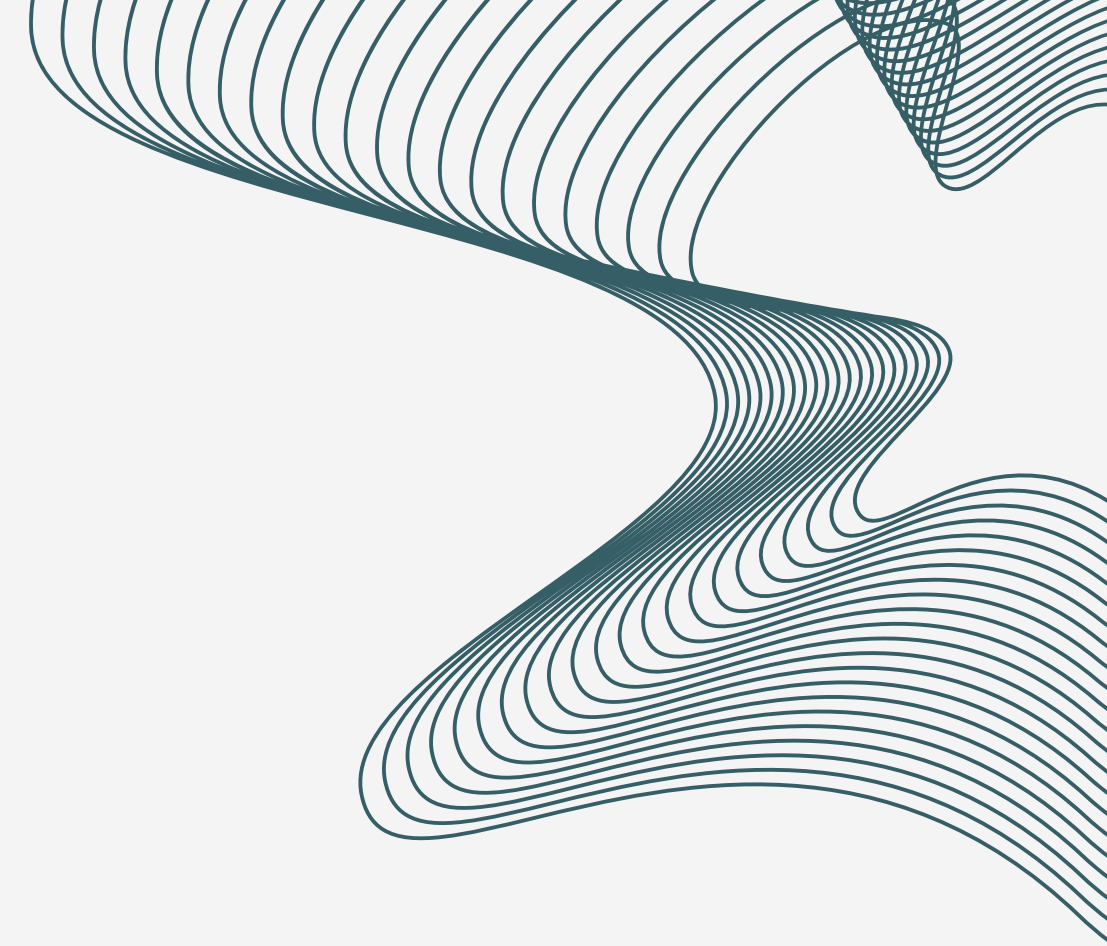
- In objective mode, knowing where to look for an answer in the pdf helps, but CANNOT be relied upon solely because of the short duration of the quiz :)
- 

- Viva questions were either simple application based ones or we were asked us to name different variants of a certain tool. Not very difficult.
- 

- Again, nature of the assignment cannot be predicted, we had to make a poster, a wax replica project and another open project.
- 

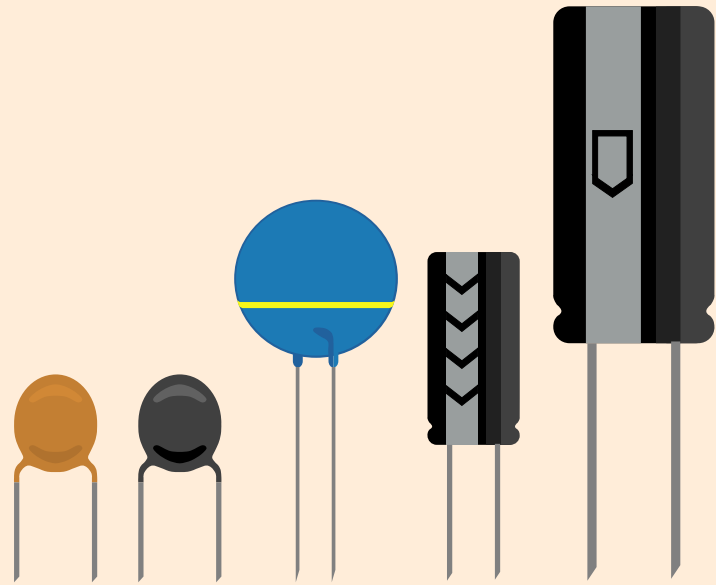
- It is easier if you are skilled at craft, otherwise it is gonna take a painful while :) It is recommended to start the project as early as possible to avoid last minute hassles.
- 

- Make sure to follow the poster format specified by the instructor, deviations can cost you marks!
- 

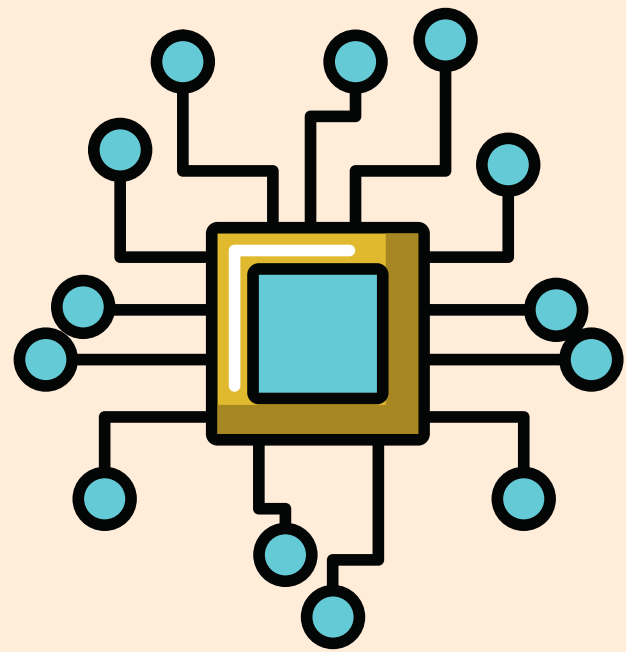




# EE101



- High Weightage Course (8 credits)
- Not very easy, requires efforts to score more, DO NOT not take the course lightly. Also the course content is quite voluminous.
- Quizzes are mostly subjective.
- Pre midsem part is comparatively scoring try to score good in this part to take a lead.
- Mostly grading was relative but quite difficult to get good grades.
- Though questions based on some topics can be solved using methods you learnt during JEE preparation put still learn the new method taught by sir is efficient in solving difficult questions.



- Preparing lecture slides well is sufficient for test and must solve tutorial to get practice of question.
- Practicing question is very important, you can't just see the slides and sit in the test directly.
- Answer to the question should be very accurate (in terms of decimal) as many a times they demand exact answer and you may loose marks if you answer is not accurate.
- Also you will have a lab based on this course in sem-2 and this course also have a further extension in sem-3 (Digital design) and sem-4 (comp architecture) so prepare it well.
- NESO academy is very helpful to learn the weak concepts which you are not able to understand through slides and lecture.

# MA101

## Don't Freak Out :))

- Very different from JEE Math, University Math can appear frightening initially.
- 

- You may find many of these concepts interesting if you think over it sufficiently.
- 

- Pre-mid semester quizzes were of moderate difficulty but the post-mid semester quizzes were extremely hard.
- 

- Although exams will be objective (mostly), learn to write subjective proofs as it is a useful skill that you will need throughout the 8 semesters.

- Study materials, tutorials and questions provided by professors will be exhaustive and sufficient.
- 

- Grading can be cut-throat as the exams were low scoring, grades dropped rapidly with decrease in marks.
- 

- NOT a course that can be prepared a single night before the exam. 4 professors take 4 different parts of the course.



# CH101

## Organic

Conceptual, spectroscopy is important, attend classes religiously. Prof's shared slides were mostly covered, exam questions were doable if your concepts are clear.

## Inorganic

UNLIKE JEE Inorganic, interesting and conceptual. Classes must be attended as Sir would not record lectures. Also, he would mention important topics just before the exam. Exam qs were not really hard, followed previous year patterns.

## Physical

Conceptually harder than the other two. Very kind prof. If interested, ask doubts in live class, he encouraged such discussions. Most exam questions were the same as PYQs (at least similar models), so scoring was not that hard.

# CH110

- 3 credits course and very scoring.
  - Quizzes are easy, preparation should not take more than an hour at most.
- 

- Make sure to not make any silly mistakes, they can cost you a grade!
  - Course content is simple, usually need to remember just 2-3 important points for each experiment.
- 

- Watch the videos uploaded and read the ppts well.
- With JEE background, it is very easy to understand.
- Was conducted on MS Forms in our year



# CE101

---

Past Year Question Papers and Tutorials Link!

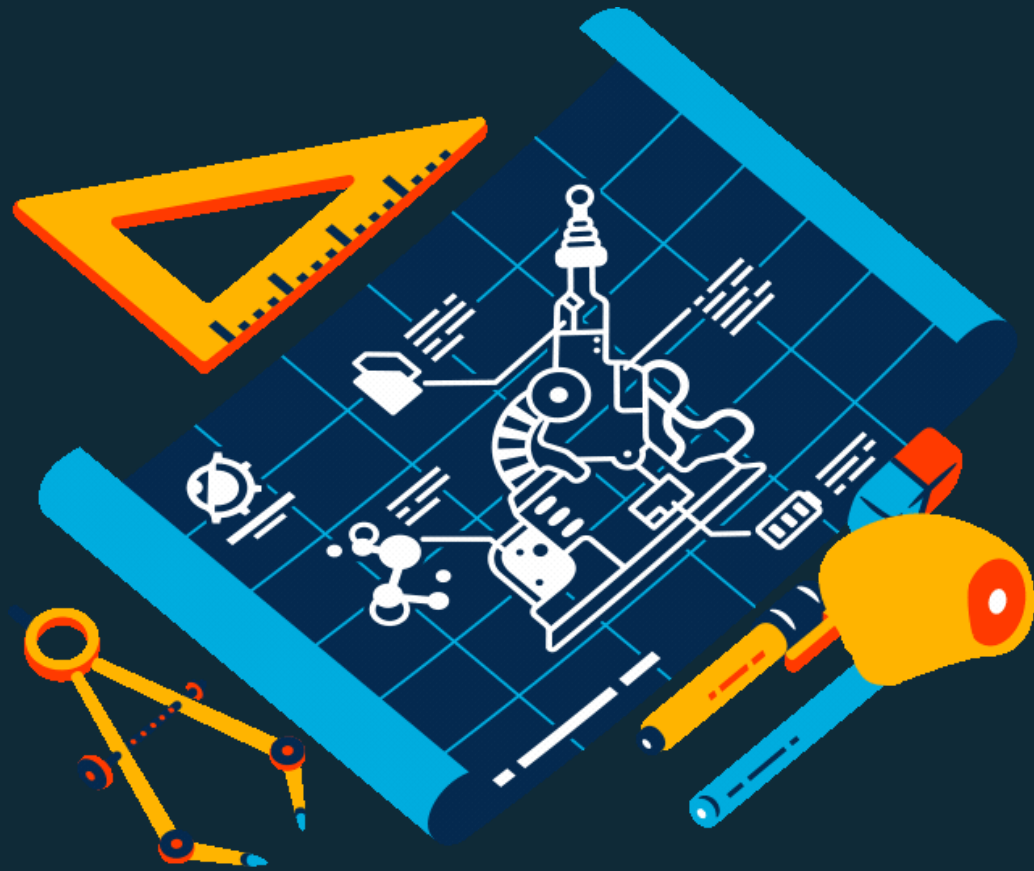


- High Credit Course (7) => Dassi le lena!
- Labs are important. Go through slides or videos before or during lab (Manas Patnaik or Tikle's Academy)
- Slides have good animation, so try to visualize.
- First try to complete lab drawings and work on detailing in the remaining time.
- Before making the drawing, first try to imagine what you are making.

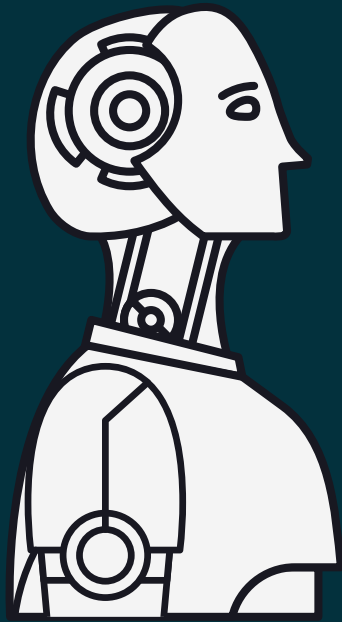
# CE101

---

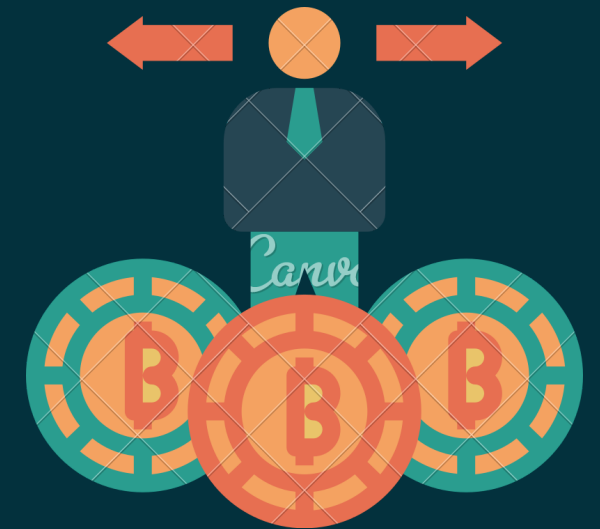
[Past Year Question Papers and Tutorials Link!](#)



- Darken the final drawing to make it more attractive.
- Pay attention to all rules and details. Marks will be cut for every minor mistake.
- MS and ES will be too lengthy to complete. Aim to do as many as possible without bothering about perfection.
- Go through slides properly for the exam. There will be theoretical questions too.

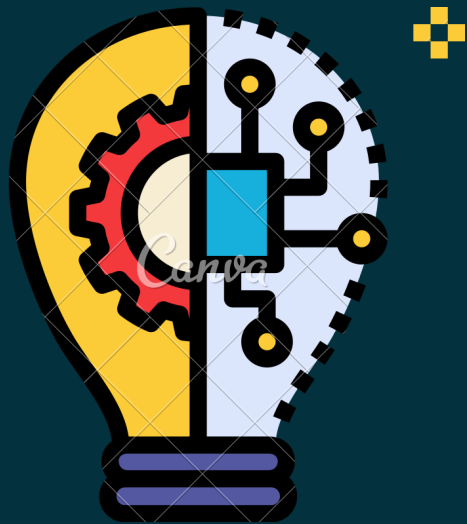


# CLUBS



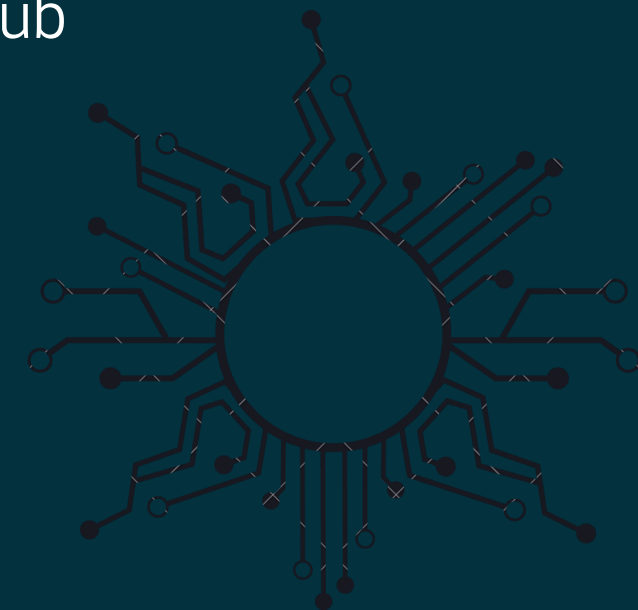
## TECHNICAL CLUBS

- Coding Club
- IITG.ai
- CnA Club
- FEC Club
- Robotics Club
- E-Cell
- Electronics Club
- Aeromodelling Club
- Whitespace Club
- IITG Racing
- Equinox Club



## CULTURAL CLUBS

- DebSoc Club
- LitSoc Club
- Xpression Club
- Cadence
- Octaves
- Fine Arts Club
- Lumiere
- Anchorenza and RadioG Club
- Montage
- IITG MUN
- Fine Arts Club





# Thank You

BEST OF LUCK :)

