EE2100: MATRIX THEORY

Course Instructor

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BASIC INFORMATION

Course Code & Credits	EE 2100 (3 Credits)	
Course Title	Matrix Theory	
Segment & Duration	Aug - Nov 2023 (1 - 6 Segments)	31 Jul - 24 Nov, 2023
Class Timings and Venue	C Slot	LH1, Academic Block A
	Monday	11 - 11:55
	Wednesday	10 - 10:55
	Thursday	09 - 09:55
Exam Slots	25 September 2023, Monday	Evening/Morning
	23 November 2023, Thursday	Evening/Morning

EVALUATION POLICY

The assessment/grading for the course will be based on the performance in the following aspects

Mode	Number	Individual Weightage	Overall weightage
Assignments	8		25
Examination	2	20 (Mid Term) + 25 (End Exam)	45
Biweekly Quiz	5		30
Total			100

Please note:

1) Depending on the class participation and attendance, the weightage could vary
2) If the class turnout is low, the weekly quiz will be converted to surprise quiz.

Minimum requirement to pass the course: 45

ASSIGNMENT POLICY

- The assignment will be typically posted on Friday of every week and will be due in 10 Days.
- Assignments are due at 17:00 (5:00 PM) on the due date (typically Monday).
- Students are strongly encouraged to attempt each assignment. However, for submission, you can pick and submit any 8 assignments.
- Students are expected to work on the assignments individually. Collaboration is fine as long as it is explicitly declared during assignment submission.
- Assignments submitted beyond deadline will attract negative grading (about 20% a day). Any assignment submitted 5 days after the deadline will not be considered.
- The solutions for the assignment will be posted on the course page 5 days after the deadline.
- Some assignments will have 3 sections namely, numerical, theory, and programming sections. A student can pick any two sections from the assignment and submit.

QUIZ POLICY

- It is planned to have a shot Biweekly quiz (except for the initial week and the week when there is an exam).
- The quizzes are scheduled for Thursdays. Please note that, if the class turnout is poor, the quizzes can be shifted.
- The tentative schedule for the quiz will be available on the Canvas Page and the Course Webpage.
- Only students attending the class will be allowed to write the quiz.
- If there are any medical or any other issues, you can drop an email and take your quiz.
- The quizzes will be conducted via Canvas Platform and will be auto graded.
- If there are any issues with the solutions, please drop in an email.
- There will be a practice quiz during Week 1.
- The best 5 quiz scores will be considered for grading.

TEACHING POLICY

- All information related to the course will be available in course page on the canvas page and the course web page. A link to the course page will be sent to you.
- All assignments should be submitted to the course page via canvas platform. No hard copies will be evaluated.
- Classes will be held in offline mode during the scheduled course timings. If for some reason, a class is not held, a recorded lecture will be posted.
- Review notes and classroom scribble will be posted on the class page.
- Most classes will have a review lecture (short video briefing the concepts covered in the class).
- Note, the review lectures should not be taken for granted and should not result in lower attendance.
- [tentative] For selected weeks, a review of useful programming tools will be posted.

REFERENCES

- No Single textbook for the course. The material discussed will be primarily based on the following books.
  A. Gilbert Starng, "Linear Algebra and its applications", Cengage Learning
  B. S H FriedBerg, A J Insel, L E Spence, "Linear Algebra", PHI Learning
  C. S Boyd and L Vandenberghe, "Introduction to Applied Linear Algebra", Cambridge university press [ebook available on Prof. Boyd's Webpage]
  D. E Kreyszig, "Advanced Engineering Mathematics", Wiley.
  E. M Greenberg, "Advanced Engineering Mathematics", Pearson