

COL106: Data Structures and Algorithms

Ragesh Jaiswal, IITD

Administrative Information

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- Course Instructor:
 - Ragesh Jaiswal
 - *Email:* ragesh@iitdabudhabi.ac.ae
 - Office: 117
- Course Time/Place:
 - Lectures: (Classroom 4)
 - Mon (9-10), Tue (9-10), Thu (10-11)

- Grading Scheme

- ① Homework: 10%

- Only a few (initial) assignments will be graded.

- ② Quizzes: 20%

- Weekly quizzes
 - Best $(n - 2)$ out of n (where n is the **total** number of quizzes held), unless attendance is lower than 75%

- ③ Programming assignments: 20%

- ④ Minor: 15%

- ⑤ Major: 30%

- ⑥ Comprehension quizzes: 3%

- ⑦ Attendance: 2% (best $n - 1$ out of n)

- Tools:

- **Course page**: <https://www.cse.iitd.ac.in/~rjaiswal/Teaching/2025/ACOL106/>. The site will contain course information, references, homework, course slides, etc. Please check this page regularly.
- **Gradescope**: A paperless grading system. You will be added to Gradescope for the course by the instructor.
- **Piazza**: A discussion forum. You are allowed to make private and anonymous posts. All announcements will be made on Piazza.
- **Blackboard**: This is the official tool that we must maintain for administrative purposes. I shall post all the course material **also** on Blackboard.

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- Homework and Quizzes:
 - Schedule for completion date of homework will be posted on the course page.
 - There will be a quiz every week on the material given in the homework for the past week.
- Comprehension quiz: These will be autograded MCQ-style quizzes that will be set up on Gradescope, which the students should take to review the course material. You can take the quiz multiple times before the deadline.
- Programming assignments: Mini-project-style programming assignments shall be given. You can do the project in your own time. We will use lab time/space to (i) take a demo/evaluation (*in case needed*), and (ii) help students who need assistance.
- Policy on cheating: **Students using unfair means will be severely penalised.**

- Textbooks:

- ① Data Structures and Algorithms in Python by *Goodrich, Tamassia, and Goldwasser.*

- Other (**optional**) book you may use for additional reference:

- Introduction to Algorithms by *Thomas H. Cormen, Charles E. Leiserson, Ronald L. Rivest, and Cliff Stein.*

- Programming language: *Python*
- You are expected to be comfortable with the first two chapters of the Textbook. These chapters are introductions to Basic Python Programming and Object-Oriented Programming.
 - *This was precisely what was included in the five modules set up for the pre-course.*
 - <https://www.cse.iitd.ac.in/~rjaiswal/Teaching/2025/ACOL106-precourse/>.
 - There will be a **quiz** based on the Python modules.

End