

Algorithms & Complexity: Lecture 1

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1 About the module

- This is an entirely theoretical module
- We will be required to write proofs
- We will not be required to implement anything in a programming language.
- We have a midterm continuous assessment worth 25% of the grade in week 6 (beginning 8th March)
- End term continuous assessment worth 25% of the grade in week 12 (beginning 10th May)

1.1 Plan of teaching

- Two weeks on complexity taught by Paul Levy
 - Foundations of complexity: Turing machines, time and space complexity
 - Complexity classes and relations between them
- Six weeks on Algorithms taught by Rejesh Chitnis
 - Classical algorithmic

There will be a weekly formative assignment