

IT 584

Approximation Algorithms

Textbooks:-

- 1) The Design of Approximation Algorithms
Williamson & Shmoys
- 2) Approximation Algorithms - V. Vazirani
- 3 Lectures + 1 Tutorial per week

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Topics:-

- 1) Why Approximation Algorithms?
- 2) Greedy Algorithms
- 3) Randomized Algorithms
- 4) Local Search Algorithms
- 5) Primal/Dual Algorithms
- 6) Semidefinite Programming

Evaluation:-

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| - Scribe Notes | 10% |
| - Mid Sem | 25% |
| - End Sem | 40% |
| - Term Paper | 25% |