Advance reading material. The following article describes a large number of algorithms for approximate string matching and summarizes their theoretical and experimental properties.

G. Navarro: A Guided tour to approximate string matching.
http://dx.doi.org/10.1145/375360.375365

Topics for discussion. Read about the algorithm(s) assigned to your group before the study group meeting. In the meeting discuss at least the following topics and prepare to summarize the discussion to the members of the other groups.

- Describe the algorithm(s). How are they related to the algorithms on the lectures?
- How do the algorithm(s) compare against other algorithms in theory and/or in practice. Experimental and theoretical comparisons are summarized in Figures 28, 30 and 31 in the article.

You may also discuss additional topics, for example other algorithms in the same category.

Group A: Theoretical worst case

Members
- Bertron, Aurélien
- Hamberg, Jiri
- Haukka, Jani
- Holmes, Nicola
- Hurme, Teemu
- Hyvärinen, Ada
- Jecmen, Jan
- Karvo, Tiina

Algorithms
- Galil–Park (Sect. 5.2.6, see also 5.2.2 and 5.2.3)
Group B: Theoretical average case

Members
- Falk, Sebastian
- He, Yan
- Karjalainen, Antti
- Mesimäki, Jerry
- Panchamukhi, Sandeep
- Rajani, Chang
- Wilzbach, Sebastian

Algorithms
- Chang–Marr (Sect. 8.3.4, see also 8.3.1)
- Additionally, explain the significance of the bound $\alpha \leq 1 - e/\sqrt{\sigma}$ (see Sect. 4.1).

Group C: Practical nonfiltering

Members
- Kaikkonen, Antti
- Korento, Mika
- Parisse, Alicia
- Rantanen, Kari
- Räty, Olli
- Toivanen, Aleksi
- Walve, Riku

Algorithms
- Wu–Manber (Sect. 7.2.1)
- Baeza-Yates–Navarro (Sect. 7.2.2)

Group D: Practical filtering

Members
- Concas, Francesco
- Denis, Devin
- Efremov, Rodion
- Korhonen, Tuukka
- Nikkari, Eeva
- Schettler, Jan
- Översti, Mikko

Algorithms
- Baeza-Yates–Navarro and Navarro–Baeza-Yates (Sects. 8.2.4 and 8.2.5)