

Information about the final exam

The final exam will take place on Saturday May 12, 2012, 3pm to 5pm. The exam will be closed books and closed notes. You will not be allowed to use calculators neither computers nor cell phones.

- IMPORTANT NOTE: Do NOT miss the final exam.

The materials for which you will be responsible for the final exam follow on the next pages.



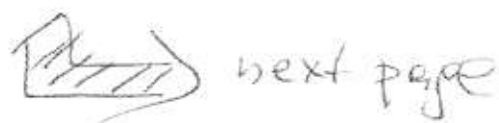
Materials for the final exam

You will be responsible for the following materials:

1) From the class notes part I on the web you are responsible for pages (1)k through (10)k.

2) From the class notes part II on the WEB you are responsible for pages (1)a through (34)i

3) You are responsible for the Extra Handout # 9 entitled "Detailed Explanations for pages (1)i → (8)i of Notes part II". This handout is on the WEB. Pay extra attention to this Extra Handout # 9

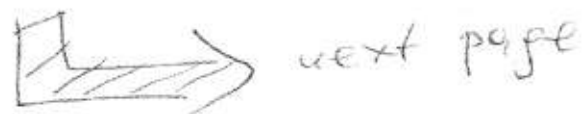
 next page

Materials for the final exam cont.

4) You are responsible for the Extra Handout # 10 entitled "Detailed Explanations of pages (9)c \rightarrow (18)c of Notes Part II". This handout is on the web. Pay attention to this Extra Handout # 10

Note #1: You don't have to remember the Euclidian algorithm for finding the greatest common divisor of two numbers. If needed I will give it to you.

Note 2: You are not responsible for pages (5)b through (10)b

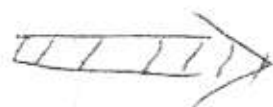
 next page

Materials for the final exam cont.

Note 3: You are responsible for the theorem that states: "Prove that if $(a, m) = d \neq 1$ then $\langle a^{-1} \rangle_m$ does not exist". You are also responsible for its proof; (bottom of page (10)b and page (11)b).


Note 4: You are not responsible for pages (3)c through (8)c.

Note 5: You don't have to remember the Chinese Remainder Theorem and the Mixed Radix Conversion formula. If needed I will give them to you. However, you should know how to derive expressions for the mixed radix digits as functions of the residues and the moduli.

 next page

EE 7715, Spr. ~~2011~~ 2012 (5)

Materials for the final exam cont.

Note 6: If I ask a problem from
pages (1)i through ~~(34)i~~ I will give
you the needed theory.  (34i)