The ideas that I've used are:

a) Substitution with one key

b) Substitution with two keys

c) Substitution with three keys

d) Substitution with one key and then transposition

For decrypting the puzzle 5, I've tried all possible combinations of a 7-digit key (since the identities are 5 to 7 keys). Alice used her university ID, so I guessed that she used her ID number. I tried with brute force all the possible ID numbers and I've found it.

I believe that Alice's practice to use her ID is not smart, because someone can guess it. AES 128-bit cbc algorithm can use any 128-bit key, which may not have a combination of letters, symbols, capital letters, etc. That doesn’t necessarily make the algorithm easier to crack, because if we really want to force users to use a better password, we can do it on software-level (check the input password before actually using it).