## Computer Networks 22/23

## Homework 4

## **Problem 1** (50%)

Given a message  $\mathbf{d} = 10011011$  and a generator polynomial  $g(x) = x^5 + x^3 + 1$ , find the codeword to be transmitted.

## **Problem 2** (50%)

Encode the message 11001100 using the Hamming code. Assume the codeword bit at position 4 was changed during transmission, and check if the receiver detects/corrects the error.