

# Homework 2

Course Code and Name: EENG226 – Signals and Systems, Fall 2019-2020

Submission Date: 5<sup>th</sup> December 2019

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A person is speaking into a rotating ventilator as shown in the figure and the persons voice is recorded by a microphone on the other side of the ventilator.



a) Describe in not more than 100 words what communications process can describe this activity?

b) Describe the processes mathematically and write down the formula representing the process if  $m(t)$  is the message generated by the speaker,  $c(t)$  is the process at the ventilator and the signal recorded by the microphone is  $x(t)$ .