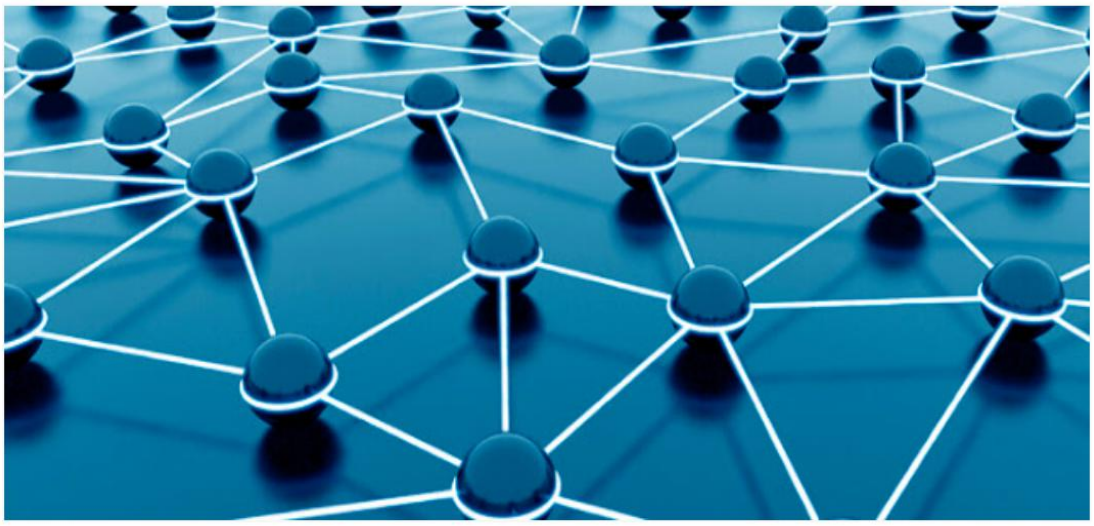
Bahan Ajar

Modul Praktikum

WIRELESS SENSOR NETWORK (WSN)

Kode Matakuliah: SKO21428

Penyusun:
Bayu Nugroho. S.Kom., M.Eng



PROGRAM STUDI SISTEM KOMPUTER
FAKULTAS ILMU KOMPUTER
INSTITUT INFORMATIKA DAN BISNIS DARMAJAYA
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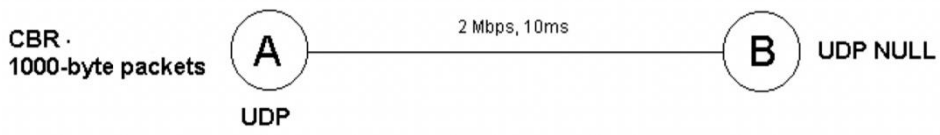
Modul 3

UDP Flow

Buatlah skema jaringan pada simulasi NS2 seperti gambar berikut ini:



Ketikkan Perintah berikut dalam simulator:

```
#Create a simulator object
set ns [new Simulator]

#Open the nam trace file
set nf [open out.nam w]
$ns namtrace-all $nf

#Define a 'finish' procedure
proc finish {} {
        global ns nf
        $ns flush-trace
                #Close the trace file
        close $nf
                #Execute nam on the trace file
        exec nam out.nam &
        exit 0
}
#Create two nodes
set n0 [$ns node]
set n1 [$ns node]

#Create a duplex link between the nodes
$ns duplex-link $n0 $n1 2Mb 10ms DropTail
```

```
$ns duplex-link-op $n0 $n1 color “blue”
$ns duplex-link-op $n0 $n1 orient right-up

#Create a UDP agent and attach it to node n0
set udp0 [new Agent/UDP]
$ns attach-agent $n0 $udp0

# Create a CBR traffic source and attach it to udp0
set cbr0 [new Application/Traffic/CBR]
$cbr0 set packetSize_ 1Kb
$cbr0 set interval_ 0.005
$cbr0 attach-agent $udp0

#Create a Null agent (a traffic sink) and attach it to node n1
set null0 [new Agent/Null]
$ns attach-agent $n1 $null0

#Connect the traffic source with the traffic sink
$ns connect $udp0 $null0

#Schedule events for the CBR agent
$ns at 0.5 "$cbr0 start"
$ns at 4.5 "$cbr0 stop"

#Call the finish procedure after 5 seconds of simulation time
$ns at 5.0 "finish"

#Run the simulation
$ns run
```

JOBSHEET 3

Lakukan percobaan Simulasi UDP Flow menggunakan software simulator dan jelaskan tahapan dan hasil simulasinya.

LAPORAN HASIL PERCOBAAN: