Fading Channels & Mobile Communications

IIT Kharagpur

Date: 21 Mar 2022

Exp 1: Understanding of PathLoss

Name: SANJIT U19EC008

REPORT				
1A: Calculation of Received Power	1B: Calculation of Pathloss Exponent	1C: Calculation of Carrier Frequency	1D: Calculation of Receiver Antenna Height	1E: Calculation of BS Antenna Height
Pr(d0): -25.53 dBm	Pr(d0): -25.91 dBm	n: 4.38	fc: 2.0 Ghz	fc: 2.0 Ghz
Dist: 100.0 m	TxPow: 50.0 dBm	TxPow: 50.0 dBm	TxPow: 50.0 dBm	TxPow: 50.0 dBm
d0: 61.0m	Dist: 100.0 m	hTx: 30.0 m	hTx: 30.0 m	n: 3.85
	Pr(d): -32.39 dBm	Dist: 1000.0 m	Dist: 1000.0 m	Dist: 1000.0 m
	d0:72.0m	Pr(d): -76.24 dBm	Pr(d): -27.63 dBm	Pr(d): -51.88 dBm
		hRx: 1.0 m	n: 3.22	hRx: 1.0 m
Pr(Entered):-21.24 dBm	n(Entered):4.54	fc(Entered):4.8 GHz	hRx(Entered):2.21 m	hTx(Entered):33.46 m
Pr(Actual):-29.82 dBm	n(Actual):4.54	fc(Actual):4.8 GHz	hRx(Actual):2.21 m	hTx(Actual):33.46 m

DISCUSSION:-

No discussion added.

(Signature of SANJIT U19EC008)

(Signature of Faculty)

Remarks:-