

Assignment 05

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Course: *Wireless Networking and Mobile Computing* – Lecturer: *Dr. Mangold*

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Step 2: Theory

What is the bandwidth of the optical spectrum (measured in Hz)?

Is the visible spectrum regulated?

What is the difference between infrared and visible light?

Can infrared light penetrate water? Can visible light?

What are the benefits of using an LED instead of a photodiode as a receiver in consumer electronics?

Step 3: Arduino - PC Communication

Step 4: Chat Application

Step 5: Performance Measurement at different Distances, find out the Maximum Range)