Coursework: Mobile and Ubiquitous Computing

Light sensor monitoring and sensor data propagation
What to do:

- Build a TinyOS application with the following functionality:
  - The network has 2 or more nodes: one is the gateway and the remaining (called children) are within communication range of the gateway.
  - Children should sense light at regular intervals and broadcast the light readings. The gateway does not sense light.
  - A light reading includes the value of light intensity and the node at which it was monitored.
  - When the gateway receives a light reading message from a child,
    - it adjusts leds accordingly (all leds on for full light, no leds on for little light), and
    - (for extra marks) it forwards the reading to the serial port.
  - The user should be able to see the readings of all children, which are sent by the gateway through the serial port.
Submissions should be individual
Deadline is May 2
  • after the revision class
Submit electronically by sending email to Niki at niki@dcs.bbk.ac.uk