

Course outline

How does an NPTEL online course work?

WEEK 1 Introduction to IoT

WEEK 2 Addressing the Power challenge

WEEK 3 Addressing the Power challenge continued and System Design for low power

Week 4 Sensors and actuators

WEEK 5 Power management algorithms

WEEK 6 IoT protocols – MQTT, COAP, and Websockets with associated applications

WEEK 7 Low power wireless technologies – BLE, IEEE 802.15.4e, Wi-Fi

WEEK 8 Low Power Wide area technologies – NBLoT, LTEM1, LoRa and BLE

● Introduction to Wide area technologies

● LoRa – 01

● LoRa – 02

● NBLoT, LTE-M1

● BLE mesh technology

● Course conclusion

● Weekly Feedback Form

○ Quiz: Week 8 Assignment 8

● Week 8 - Lecture notes

● Week 8 Assignment 8 Answers

● Important formulas

Video Download

Week 8 Assignment 8

The due date for submitting this assignment has passed.

Due on 2021-09-22, 23:59 IST.

As per our records you have not submitted this assignment.

1) Receiver sensitivity (in ___dBm) of RN2483 is

No, the answer is incorrect.
Score: 0

Accepted Answers:
(Type: Range) -150,-145

2 points

2) Which class of device has minimum downlink communication latency in LoRa

- Class A
 Class C
 Class B
 All the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Class C

1 point

3) To cover a long range in LoRa, the data rate should be high

- False
 True

No, the answer is incorrect.
Score: 0

Accepted Answers:
False

1 point

4) Bandwidth of NBLoT (in ___KHz) is

No, the answer is incorrect.
Score: 0

Accepted Answers:
(Type: Range) 180,200

2 points

5) In LoRaWAN, application payload End to End encryption is support between

- End Device and Gateway
 Gateway and Network server
 End Device and Network server
 End Device and Application Server

No, the answer is incorrect.
Score: 0

Accepted Answers:
End Device and Application Server

1 point

6) NBLoT can be connected to

- GSM Band
 Edge nodes
 LTE
 All the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
All the above

1 point

7) In an application, the requirement is to switch off the garage light from living room, kitchen, and storeroom. This may be achieved in BLE mesh **0 points** by:

- Assigning single group address to living room, kitchen, and storeroom.
 Assigning different group address to living room, kitchen, and storeroom.
 Assigning Group address is not required for living room, kitchen, and storeroom.
 None of the above.

No, the answer is incorrect.
Score: 0

Accepted Answers:
Assigning single group address to living room, kitchen, and storeroom.