

Unit 12 - Week 11

Course outline

How does an NPTEL online course work?

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

Week 9

Week 10

Week 11

● Lecture 51 Whole Building Performance - I

● Lecture 52 Whole Building Performance - II

● Lecture 53 Whole Building Performance - III

● Lecture 54 Whole Building Performance - IV

● Lecture 55 Whole Building Performance - V

○ Quiz : Assignment 11

○ Solution for Assignment 11

Week 12

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Assignment 11

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2020-04-15, 23:59 IST.

1) Which simulation engine runs behind Design Builder for thermal and energy calculations?

1 point

- Energy Plus
- Radiance
- ESP-R
- TRACE 700

No, the answer is incorrect.
Score: 0

Accepted Answers:
Energy Plus

2) Common function of Virtual Partitions in Design Builder is to:

1 point

- create standard partition wall (with standard thickness) between thermal zones with same thermostat set-point schedule
- create separate perimeter and core zones so that the local effect of the solar gain in the perimeter zone may be calculated
- create a virtual separation between neighboring buildings
- create standard partition wall (with standard thickness) between thermal zones with different thermostat set-point schedule

No, the answer is incorrect.
Score: 0

Accepted Answers:
create separate perimeter and core zones so that the local effect of the solar gain in the perimeter zone may be calculated

3) Which of the following statement is false in relation to base-case and propose-case simulation models for Green Building compliance?

1 point

- Occupancy schedule do not vary in base-case and propose-case simulation models
- Thermostat set-point schedule do not vary in base-case and propose-case simulation models
- Occupancy, clothing, and thermostat set-point schedule in base-case simulation model may vary with that in propose-case simulation model
- Clothing schedule do not vary in base-case and propose-case simulation models

No, the answer is incorrect.
Score: 0

Accepted Answers:
Occupancy, clothing, and thermostat set-point schedule in base-case simulation model may vary with that in propose-case simulation model

4) Which is the following statements is true related to modeling in Design Builder?

1 point

- Changes made at Building Level are applied (or inherited) to Block and Zone level
- Changes made at Building Level are not applied (or inherited) to Block and Zone level
- Changes made at Zone level are applied (or inherited) to Building level
- Changes made at Block level are applied (or inherited) to Building level

No, the answer is incorrect.
Score: 0

Accepted Answers:
Changes made at Building Level are applied (or inherited) to Block and Zone level

5) In Design Builder, Component blocks (Standard type) are created at the site level primarily for which of the following functions?

1 point

- Shading to other blocks, reflection, and visualization
- Creating surfaces adjacent to Ground
- Creating surfaces adjacent to Adiabatic zones
- Creating thermal zones

No, the answer is incorrect.
Score: 0

Accepted Answers:
Shading to other blocks, reflection, and visualization

6) Airtightness (or infiltration) of the building construction for base-case simulation model for Green building compliance is usually prescribed by which of the following ASHRAE standards?

1 point

- ASHRAE 90.1
- ASHRAE 90.1 Appendix G
- ASHRAE 62.2
- ASHRAE 55

No, the answer is incorrect.
Score: 0

Accepted Answers:
ASHRAE 62.2

7) What is the full form of LPD in the context of building energy simulations?

1 point

- Lighting Power Density
- Low Power Design
- Lightning Prevention Device
- Light Point Defect

No, the answer is incorrect.
Score: 0

Accepted Answers:
Lighting Power Density

8) Which of the following statements is true in the context of building energy simulation for Green building compliance?

1 point

- For base-case simulation models, lighting control is required to be modeled
- For base-case simulation models, lighting control is not required to be modeled
- For propose-case simulation models, lighting control cannot be modeled
- For propose-case simulation models, lighting control is not allowed for buildings in India

No, the answer is incorrect.
Score: 0

Accepted Answers:
For base-case simulation models, lighting control is not required to be modeled

9) How many results for a particular output variable are obtained out of an annual hourly simulation?

1 point

- 3600
- 24
- 365
- 720
- 8760

No, the answer is incorrect.
Score: 0

Accepted Answers:
8760

10) What does COP stands for, in the context of modeling of HVAC systems?

1 point

- Cost of Production
- Coefficient of Performance
- Coefficient of Power
- Controller Operating Properly

No, the answer is incorrect.
Score: 0

Accepted Answers:
Coefficient of Performance