

Unit 4 - Week 2

Course outline

How does an NPTEL online course work?

Week 0

Week 1

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- Lecture 6 : Industry 4.0: The Fourth Revolution
- Lecture 7 : Industry 4.0: Sustainability Assessment of Manufacturing Industry
- Lecture 8 : Industry 4.0: Lean Production System
- Lecture 9 : Industry 4.0: Smart and Connected Business Perspective
- Lecture 10 : Industry 4.0: Smart Factories
- Week 2 - Lecture material

Week 3

Week 4

Week 3

Week 6

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Assignment 2

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

Due on 2020-02-12, 23:59 IST.

- When did the third industrial revolution prompted?

a. In 1950s

b. In 1960s

c. In 1970s

d. None of the above

a.

b.

c.

d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

b.

2) Among the following, which is not within the scope of the fourth industrial revolution?

a. Smart Connected Machines

b. Smart Factories

c. Gene Sequencing

d. None of the above

a.

b.

c.

d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

d.

3) Which is/are part of automation pyramid of a smart factory?

a. Control.

b. ERP.

c. Manufacturing execution system.

d. All of the above.

a.

b.

c.

d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

d.

4) "An optimized smart factory optimizes the reliability of the product." Choose whether the statement is true or false.

a. True.

b. False.

a.

b.

No, the answer is incorrect.

Score: 0

Accepted Answers:

a.

5) What is the primary responsibility of physical layer of smart and connected products?

a. To collect and acquire data from object or environment.

b. Connect the smart devices.

c. Equipped with different communication technology.

d. None of the above

a.

b.

c.

d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

a.

6) Which is not a part of novelty centric business model?

a. New services.

b. Building trust.

c. New market.

d. Innovation.

a.

b.

c.

d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

b.

7) Which is not a part of digital layer of smart and connected products?

a. Analyzes the data.

b. Acquires the data.

c. Stores the data.

d. Processes the data.

a.

b.

c.

d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

b.

8) Which of the following describes the transportation waste in industry?

a. Excessive movements of people for materials or information

b. Excessive movements of materials

c. Non value added movement of people

d. None of the above

a.

b.

c.

d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

a.

9) Which of the following describes the waiting waste in industry?

a. Excessive movements of people for materials or information

b. Period of inactivity of people for material or information

c. Non value added movement of people

d. Period of inactivity of marketing for material or information

a.

b.

c.

d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

b.

10) How does energy price affect sustainability?

a. Increase in energy affects sustainability

b. Decrease in energy affects sustainability

c. Depending upon situation, increase or decrease in energy affects sustainability

d. None of the above

a.

b.

c.

d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

a.

11) Which of the following is considered as one of the important aspects of population growth that affects the creation of productive society?

a. Industry location

b. Food supply

c. Politics

d. Both (a) and (c)

a.

b.

c.

d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

d.

12) Which of the following is not one of the main characteristics of Business Model?

a. Strategic approach

b. Maximizing economic profits for an enterprise

c. Competitive benefits

d. None of the above

a.

b.

c.

d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

d.

13) What was the main driver of the first industrial revolution?

a. Electricity and assembly line

b. Steam engine and construction of railways

c. Both (a) and (b)

d. None of the above

a.

b.

c.

d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

b.

14) Resource(s) of automation is/are –

a. Control.

b. Monitor.

c. Software algorithms.

d. All of the above.

a.

b.

c.

d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

d.

15) Which of the following is one of the most important aspects of Lean Production System?

a. JIDOKA

b. JIT

c. Both (a) and (b)

d. None of the above

a.

b.

c.

d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

