Unit 5 - Week 3

How does an NPTEL online

Lecture 11 : Industry 4.0:

Cyber-Physical Systems and

**Next-Generation Sensors** 

Collaboration Platform and

O Lecture 12 : Industry 4.0:

Lecture 13 : Industry 4.0:

Lecture 14 : Industry 4.0:

Lecture 15 : Industry 4.0: Big

Week 3 - Lecture Material

O Quiz: Assignment 3

Week 3 Feedback Form

Data and Advanced Analysis

Artificial Intelligence

Augmented Reality and Virtual

Product Lifecycle

Management

Reality

Week 4

Week 5

Week 6

Week 7

Week 8

Week 9

Week 10

Week 11

Week 12

**Download Videos** 

**Text Transcripts** 

**Detailed Assignment Solution** 

Live Interactive Session

Course outline

course work?

Week 0

Week 1

Week 2

Week 3

## NPTEL » Introduction to Industry 4.0 and Industrial Internet of Things

1)

○ a.

○ b.

○ c.

d.

Score: 0

○ a.

○ b.

O c.

O d.

Score: 0

○ a.

○ b.

О c.

○ d.

Score: 0

○ a.

○ b.

○ c.

 $\bigcirc$  d.

Score: 0

b.

No, the answer is incorrect.

Accepted Answers:

O c.

d.

Score: 0

6)

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○ b.

○ c.

 $\bigcirc$  d.

Score: 0

○ a.

○ b.

○ c.

○ d.

Score: 0

○ a.

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Score: 0

9)

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Score: 0

10)

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Score: 0

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Score: 0

12)

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Score: 0

13)

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14)

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Score: 0

15)

○ a.

○ b.

O c.

○ d.

Score: 0

No, the answer is incorrect.

Accepted Answers:

No, the answer is incorrect.

Accepted Answers:

No, the answer is incorrect.

Accepted Answers:

No, the answer is incorrect.

a. Eight. b. Six. c. Nine. d. Ten.

Why data analytics is required?

d. All of the above.

a. Head mounted display b. Motion detecting devices

d. Both (a) and (b)

c. Machine gesture detection device

a. For appropriate product recommendations.

Which devices are used for fully-immersive simulations?

b. Helps to learn about competitors. c. Protect from wrongful decisions.

Accepted Answers:

No, the answer is incorrect.

b. auditory c. haptic

d. all of the above.

a. sensors and cameras

d. none of the above

Artificial intelligence is a

c. Both a and b

d. None

a. Creation of manmade thinking power

Significance of AI in Agriculture industry

a. Crop and soil monitoring

b. Precision agriculture c. Supply chain efficiency

d. All of the above

b. Creation of software having intuitive decision making ability

How many components are there in PLM to handle the product across it's lifecycle-

 b. mirror unit c. machines

Accepted Answers:

No, the answer is incorrect.

Accepted Answers:

7)

No, the answer is incorrect.

Accepted Answers:

a.

5)

No, the answer is incorrect.

Accepted Answers:

4)

No, the answer is incorrect.

Accepted Answers:

3)

No, the answer is incorrect.

What is structured data?

d. All of the above.

Accepted Answers:

2)

No, the answer is incorrect.

Accepted Answers:

**Assignment 3** 

PLM maximizes-

d. Only a.

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

a. Product revenues and product's value.

a. Set targets for the company.

b. Reduce the product quality.

a. Data that can be easily organized.

c. Stored in relational databases.

Variety means in Big data-

d. All of the above.

What is redundancy mitigation?

c. Spot incorrect data. d. None of the above.

a. Eliminate repeated data through detection.

There are three steps in data acquisition. What they are?

b. Integration, Clearing and Visualization. c. Data collection, Clearing and Integration.

Smart sensors are defined as the combination of a sensor with

What are the sensor modalities used for Augmented Reality?

Which one is the key component of Augmented Reality devices?

d. None of the above.

What is the full form of PMU?

d. None of these

a. Pulse measuring unit b. Phasor measuring unit c. Peak measuring unit

a. Signal conditioning b. Embedded algorithms

c. Digital interface

d. All of these

a. Data collection, Data transmission and Data pre-processing.

b. Combine data from various sources.

b. Speed of generation data. c. Quantity of created data.

b. Managed by Structured Query Language (SQL) in databases.

a. Category of the data such as structured data or unstructured data.

c. Reduce the profit.

d. Increase the time.

b. Product associated costs.

c. All of the above.

Announcements

Key Performance Indicators (KPIs) are known as metrics. What are they used for?

**About the Course** 

Ask a Question

**Progress** 

Mentor

0 points

1 point

Due on 2020-02-19, 23:59 IST.