

Unit 14 - Week 12

Course outline

How does an NPTEL online course work?

Week 0

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

Week 9

Week 10

Week 11

Week 12

● Lecture 56 : IIoT Applications: Oil, Chemical and Pharmaceutical Industry

○ Lecture 57 : IIoT Applications: UAVs in Industries

○ Lecture 58 : Case Studies for Industry 4.0 & IIoT

○ Lecture 59 : Milk Processing and Packaging Industries

○ Lecture 60 : Manufacturing Industries - Part I

○ Lecture 61 : Manufacturing Industries - Part II

○ Lecture 62 : Student Projects - Part I

○ Lecture 63 : Student Projects - Part II

○ Lecture 64 : Virtual Reality Lab

○ Lecture 65 : Steel Technology Lab

● Week 12 - Lecture Material

○ Quiz : Assignment 12

○ Week 12 Feedback Form

Download Videos

Text Transcripts

Detailed Assignment Solution

Live Interactive Session

Assignment 12

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

Due on 2020-04-22, 23:59 IST.

- 1) 1 point
- How do UAVs monitor the crop health in agriculture field?
- Fertilization dispersal to various regions according to required
 - Identify and report the health condition of the individual crop
 - Monitor crop stress factors
 - both (a) and (c)
- a.
 b.
 c.
 d.
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
d.
- 2) 0 points
- How do UAVs inspect the construction sites industry?
- Save energy and time
 - Take continuous complex readings of several construction structures
 - Both (a) and (b)
 - Option (b) only
- a.
 b.
 c.
 d.
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
d.
- 3) 1 point
- What is the application of UAVs in mining sites?
- Observe miles of transmission lines in a single flight
 - Manage stockpiles and helps in optimizing blast design
 - Test network coverage and stability
 - Both (a) and (b)
- a.
 b.
 c.
 d.
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
b.
- 4) 1 point
- What is/are the advantages of UAVs in the Telecommunication Industry?
- Inspect towers from any angle and height
 - Test network coverage and stability
 - Both (a) and (b)
 - None of the above
- a.
 b.
 c.
 d.
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
c.
- 5) 1 point
- 3D mapping of carbon storage in biomass is the UAV application in the industry of _____?
- Forestry
 - Oil and Gas
 - Warehousing and Inventory
 - Agriculture
- a.
 b.
 c.
 d.
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
a.
- 6) 1 point
- In the case of applying machine learning and cloud services, the next step after identifying the machine learning algorithm is –
- Identifying specific data types
 - Illustration of context, limitations, and solutions
 - Identifying a cloud platform
 - Creation of a roadmap
- a.
 b.
 c.
 d.
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
c.
- 7) 0 points
- How does IoT help in condition-based monitoring in the Chemical Industry?
- Analytics predict weather and its impact on farming
 - Pricing model with the profit margin
 - Both (a) and (b)
 - Only (a)
- a.
 b.
 c.
 d.
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
c.
- 8) 1 point
- How the logistics chain is much improved with the IoT in the Chemical Industry?
- Water, nutrients, and pesticides analysis
 - Ensure product location through sensors or RFID tags
 - Detect Adverse Drugs Reaction (ADR)
 - Detect allergic reaction
- a.
 b.
 c.
 d.
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
b.
- 9) 0 points
- The reason behind the high deployment of IoT sensors in Pharmaceutical Industry is/are –
- Access huge data of different manufacturing departments
 - Industries are able to control, manage and supervise the production floor remotely in real time.
 - Both (a) and (b)
 - Option (b) only
- a.
 b.
 c.
 d.
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
c.
- 10) 0 points
- IoT can help pharmaceutical companies to improve logistics in the Pharmaceutical Industry by-
- Inspecting the maintenance of medicine and vaccines
 - Maintaining of machines and equipment
 - Option (a) only
 - Both (a) and (b)
- a.
 b.
 c.
 d.
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
d.