
ASSIGNMENT – 1
COURSE NAME: INDUSTRY 4.0 TECHNOLOGIES
COURSE CODE: EX-20001

<u>Question No.</u>	<u>Question</u>	<u>CO Mapping</u>
1	Explain the basic concept of Industry 4.0.	CO1
2	Explain briefly why and how Industry 4.0 is implemented in the production system.	CO1
3	Write advantages of the Industry 4.0 concept if implemented in the production system.	CO1
4	Explain in brief about key technologies used in the Industry 4.0.	CO3
5	What is the meaning of Augmented Reality? Explain about the main parts of the AR.	CO3
6	Enlist how AR is different from VR.	CO3
7	What are the benefits of Industry 4.0?	CO1
8	What are the differences between Industry 4.0 and 3.0?	CO1
9	Discuss about six design principles for Industry 4.0	CO1
10	Discuss about Cyber-Physical Systems in detail.	CO3
11	List down all industrial revolutions. Define Industry 4.0 and give reasons for its implementation.	CO1
12	Explain the role of additive technology in Industry 4.0.	CO3
13	Write a short note on Artificial Intelligence with reference to Industry 4.0.	CO3
14	Enlist the industrial application of AR.	CO3
15	What is big data? Write applications of big data in Industry 4.0.	CO3
16	Differentiate between cloud computing and fog computing.	CO3
17	Define the following terms: - (1) Artificial intelligence in the industry (2) Block Chain (3) Cybersecurity	CO3
18	Explain why the company should adopt the industry 4.0 concept.	CO1
19	Enlist the various challenges for Industry 4.0 transformation.	CO1
20	Explain the concept of Virtual Reality in Industry 4.0.	CO3
21	Differentiate between conventional and intelligent industrial systems.	CO1
22	What is the need for block chain in Industry 4.0?	CO3
23	What are the various components of the intelligent industry, and what are its advantages and limitations?	CO1

All the best!