

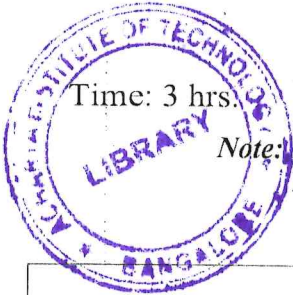
CBBCS SCHEME

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BMT405B

Fourth Semester B.E./B.Tech. Degree Examination, June/July 2026 IIOT (Industrial IoT)



Time: 3 hrs.

Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M : Marks, L: Bloom's level, C: Course outcomes.

Module – 1			M	L	C
Q.1	a.	Explain the architecture of IIoT with a neat diagram.	10	L2	CO1
	b.	Discuss the role of internet of things and industrial internet of things in industry.	10	L2	CO1
OR					
Q.2	a.	Define industrial revolution and discuss the different phases of development in the industries.	10	L2	CO1
	b.	Discuss the Cyber Physical System (CPS) and also the industrial internet.	10	L2	CO1
Module – 2					
Q.3	a.	Discuss the different types of sensors used in IIoT.	10	L2	CO2
	b.	Illustrate the process automation and data acquisition takes place on IoT platform.	10	L3	CO2
OR					
Q.4	a.	Explain the different types of actuators implemented in IIoT systems.	10	L2	CO2
	b.	Illustrate the role of microcontroller and embedded system in IIoT.	10	L3	CO2
Module – 3					
Q.5	a.	Define Augmented Reality and explain the hardware components involved in Augmented Reality Technologies.	10	L2	CO3
	b.	Explain briefly the lean manufacturing system.	10	L2	CO3
OR					
Q.6	a.	Discuss the characteristics of big data analytics in detail.	10	L2	CO3
	b.	Explain the various technologies in Virtual Reality.	10	L2	CO3

Module – 4

Q.7	a.	Describe Profibus in IIoT with its features and components.	10	L2	CO4
	b.	Illustrate the communication protocol HART in IIoT.	10	L3	CO4

OR

Q.8	a.	Discuss the controller Area Network with its features and components.	10	L2	CO4
	b.	Illustrate the fieldbus in IIoT.	10	L3	CO4

Module – 5

Q.9	a.	Discuss the role of IIoT in health care.	10	L2	CO5
	b.	Explain how IIoT is implemented in smart office.	10	L2	CO5

OR

Q.10	a.	Explain the role of IIoT in manufacturing industry.	10	L2	CO5
	b.	Discuss the implementation of IIoT in oil and gas industry.	10	L2	CO5
