



SNS COLLEGE OF TECHNOLOGY

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai
 Accredited by NAAC, Coimbatore, with 'A' Grade B with (II) &
 Accredited by NBA, Coimbatore, with 'A' Grade B with (II) &
 COUNCIL FOR DISTANCE EDUCATION (COUNCIL FOR DISTANCE EDUCATION)



Reg. No:

R.C.Tech- Internal Assessment – III
Academic Year 2024-2025 (Even Semester)

Fourth Semester

A

23ME1207- INTERNET OF THINGS FOR PRODUCTION SYSTEM
Time: 1st Hours

Answer All Questions

Maximum Marks: 50

- | | | |
|--|-----|--------|
| 1. Define AGV | CO | blooms |
| 2. Define Automation (Semester 2023) | CO4 | END |
| 3. Mention the purpose of Amplification in DAS | CO4 | RM |
| 4. Smart Metering using IoT Define | CO5 | END |
| 5. Mention purpose of Factors degradation (Block 2023) | CO5 | APP |

PART - B (2*13=26 Marks) & (1*14=14 Marks)

- | | | |
|---|-----|--------|
| 6. (a) Enumerate types of AGVs used in Production system (3M) | CO | blooms |
| (b) (i) Smart Energy Management Illustrate it (3M) | CO4 | RM |
| (ii) Mention the challenges in implementing edge computing in IoT devices and suggest practical solutions to overcome these challenges (3M) | CO4 | ANA |
| (c) (i) Industrial Automation using Robots & give study it (3M) | CO5 | APP |
| (ii) Define Predictive Maintenance and Analyze the importance of Predictive Maintenance in production system (General Factor 2022) (3M) | CO4 | ANA |
| (d) (i) Smart Inventory Management How it is used in decrease the cost during manufacturing & give study it (Automation Reference 2021) | CO5 | ANA |

blooms's Examination
RTM Recorder END - Understand APP Apply ANA Analyse EVALUATION
CR1 - 1 hour

Dr. S. S. Sathya
 Teaching & Evaluation



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Academic Year 2024-2025 (Even Semester)

Fourth Semester

B

23ME1207- INTERNET OF THINGS FOR PRODUCTION SYSTEM
Time: 1st Hours

Answer All Questions

Maximum Marks: 50

- | | | |
|---|-----|--------|
| 1. Mention advantages of AGV in production system | CO | blooms |
| 2. (a) Advantages & Disadvantages in Industry 4.0 (JUNE 2023) | CO4 | END |
| (b) List the importance of edge computing in Industry 4.0 (JUNE 2023) | CO4 | END |
| 3. Mention the importance of Signal Conditioning in DAS | CO5 | RM |
| 4. Discuss the role of automation in enhancing quality of parts | CO5 | ANA |
| 5. Analyze how predictive maintenance is useful to reduce the cost of manufacturing | CO5 | ANA |

PART - B (2*13=26 Marks) & (1*14=14 Marks)

- | | | |
|--|-----|--------|
| 6. (a) Internet of Things for Plant Automation & give study it (3M) | CO | blooms |
| (b) Analyze the major cybersecurity threats in the Internet of Things (IoT) ecosystem How can these threats be mitigated? (3M) | CO4 | ANA |
| 7. (a) Smart Tracking of Components in Production line using IoT Apply it using IoT (3M) | CO5 | ANA |
| (b) Illustrate Sensor Data Acquisition with Block diagram (3M) | CO5 | END |
| 8. (a) Create a smart using IoT & give study it with real time examples (JUNE 2023) (3M) | CO4 | APP |
| (b) (i) Smart Energy Management Illustrate it (Reference 2023) | CO5 | APP |

blooms's Examination
RTM Recorder END - Understand APP Apply ANA Analyse EVALUATION
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