MAR ATHANASIUS COLLEGE OF ENGINEERING, KOTHAMANGALAM

(GOVERNMENT AIDED AUTONOMOUS ENGINEERING COLLEGE)

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Second Sessional Examination October 2026

MCN401-Industrial Safety Engineering

(S7_LA & LB)

Max. Marks 40 Time :1 Hour 30 Minutes

Answer all questions from Part A and Part B

PART A (4X3=12 Marks)

1. What are the safety precautions to be taken before entering a confined space. (CO3)
2. Explain any important four safety practices in excavation work. (CO3)
3. Explain the different safety issues in gas welding operations. (CO4)
4. Explain the importance of material handling. (CO4)

PART B (2 X14=28 marks)

5. a) Distinguish ladders and scaffolds along with their safety features. (7 Marks) (CO3)

   b) You are appointed as a safety manager for a demolition work of a l0-storey building in a congested residential area. What are the safety measures that you need to ensure for the completion of the work? (7 marks) (CO3)

6. a) With suitable sketches explain the operation of any two types of safety guards suitable for industrial applications. (8 Marks) (CO4)

   b) Explain the potential hazards associated with grinding operations. (6 marks) (CO4)

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Students will be able to

CO3	Understand different issues in construction industries.
CO4	Understand various hazards associated with different machines and mechanical material handling

VISION

Embedding Creativity and fostering quality Education

MISSION

Advance the field of Electronics and Communication by developing and disseminating innovative practices and technologies.

Nurture technically competent professionals in Electronics and Communication Engineering equipped with the skills to address global challenges.

Foster socially responsible technocrats and entrepreneurs who contribute positively to society through their expertise and leadership