MAR ATHANASIUS COLLEGE OF ENGINEERING, KOTHAMANGALAM – 686 666.
(GOVERNMENT AIDED AUTONOMOUS ENGINEERING COLLEGE)

DEPARTMENT OF MECHANICAL ENGINEERING

SECOND SESSIONAL EXAMINATION, DECEMBER 2024
S1 MA & MB BATCH

B24ES1T05B - BASIC CIVIL AND MECHANICAL ENGINEERING (B)

Time –45 min **Max: 20 Marks**

PART-A
Answer All Questions.

1.	Classify the gears and explain them with neat sketches.	**CO 5**	**4 Marks**
2.	With the neat sketch explain MPFI?	**CO 4**	**4 Marks**

PART - B
Answer All Questions.

3a.	Derive an equation for the length of open belt drive.	**CO 5**	**6 Marks**
3b.	Explain Torque converter and Automatic Transmission System	**CO 5**	**6 Marks**

Vision

Mentoring to Ensure Excellence

Mission

To facilitate comprehensive and integrated development of students by providing quality education that encourages sustainable practices.

To mould disciplined and socially committed engineers capable of assuming professional leadership upholding national integrity.